

**BEFORE THE  
PUBLIC SERVICE COMMISSION OF  
SOUTH CAROLINA**

**DOCKET NO. 2018-1-E**

In the Matter of  
Annual Review of Base Rates  
for Fuel Costs for  
Duke Energy Progress, LLC

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**DIRECT TESTIMONY OF  
KENDRA A. WARD FOR DUKE  
ENERGY PROGRESS, LLC**

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1    **Q.    PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2    A.    My name is Kendra A. Ward, and my business address is 550 South Tryon Street,  
3           Charlotte, North Carolina.

4    **Q.    BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5    A.    I am a Rates Manager supporting both Duke Energy Progress, LLC (“DEP” or the  
6           “Company”) and Duke Energy Carolinas, LLC (“DEC”) (collectively, the  
7           “Companies”).

8    **Q.    PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND**  
9       **PROFESSIONAL EXPERIENCE.**

10   A.    I have a Bachelor of Arts degree in Political Science and Economics from the  
11          University of North Carolina at Chapel Hill and a Masters in Accounting from  
12          Appalachian State University. I am a certified public accountant licensed in the  
13          State of North Carolina. I began my career in 2004 with Cherry, Bekaert &  
14          Holland, LLP as a staff auditor. From 2006 until 2013 I held various financial  
15          accounting and reporting roles at Cherry, Bekaert and Holland, LLP; Wachovia  
16          Bank (now known as Wells Fargo) and The Shaw Group, Inc. (now known as  
17          CB&I). In 2013, I started at Duke Energy as Lead Accounting Analyst and held a  
18          variety of positions in the finance organization. I joined the Rates Department in  
19          2016 as Manager, Rates and Regulatory Filings.

20   **Q.    HAVE YOU TESTIFIED BEFORE THIS COMMISSION IN ANY PRIOR**  
21       **PROCEEDINGS?**

1 A. Yes. I testified before the Public Service Commission of South Carolina  
2 (“PSCSC” or “Commission”) in DEP’s 2017 fuel and environmental cost  
3 recovery proceeding in Docket No. 2017-1-E.

4 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

5 A. The purpose of my testimony is to provide DEP’s actual fuel, capacity related  
6 costs including Public Utility Regulatory Policies Act of 1978 (“PURPA”) capacity,  
7 environmental, and Distributed Energy Resource Program (“DERP”) cost data for March 1, 2017 through February 28, 2018 (the “review period”), the  
8 projected fuel, capacity related costs, environmental and DERP cost information  
9 for March 1, 2018 through June 30, 2018 (the “forecast period”), and DEP’s  
10 proposed fuel factors by customer class for July 1, 2018 through June 30, 2019  
11 (the “billing period”). I will provide fifteen exhibits to support my testimony.

13 **Q. WHAT IS THE SOURCE OF THE ACTUAL INFORMATION AND DATA**  
14 **FOR THE REVIEW PERIOD?**

15 A. Actual test period kilowatt hour (“kWh”) generation, kilowatt (“kW”) and kWh  
16 sales, fuel-related revenues, fuel-related expenses, and DERP revenues and  
17 expenses were taken from DEP’s books and records. These books, records, and  
18 reports of DEP are subject to review by the appropriate regulatory agencies in the  
19 three jurisdictions that regulate DEP’s electric rates.

20 In addition, independent auditors perform an annual audit to provide  
21 assurance that, in all material respects, internal accounting controls are operating  
22 effectively and DEP’s financial statements are accurate.

23 **Q. DOES DEP PURCHASE POWER AND HOW ARE THESE COSTS**

1           **RECORDED?**

2       A.     Yes. The Company continuously evaluates purchasing power if it can be reliably  
3           procured and delivered at a price that is less than the variable cost of DEP's  
4           generation. In accordance with S.C. Code Ann. § 58-27-865(A), DEP recovers  
5           from its South Carolina retail customers an amount that is the lower of the  
6           purchase price or DEP's avoided variable cost for generating an equivalent  
7           amount of power for its economy purchases. The Company also engages in  
8           economy purchases (and economy sales) with DEC as a result of the Joint  
9           Dispatch Agreement.

10           The Company also purchases power from certain suppliers that are treated  
11           as firm generation capacity purchases. In accordance with S.C. Code Ann. § 58-  
12           27-865(A)(2)(a), all amounts paid to these suppliers are recorded as recoverable  
13           fuel costs with the exception of capacity charges.

14           Finally, the Company routinely purchases power from qualifying facilities  
15           under PURPA. According to revisions in Act 236 that are set forth in S.C. Code  
16           Ann. § 58-27-865(A), the avoided cost payments for such purchases are included  
17           in fuel recoverable from South Carolina retail customers. In addition, Act 236  
18           also made revisions to § 58-27-865(A)(1) relating to the allocation of any capacity  
19           costs that are recovered under the fuel factor.

20       **Q.     PLEASE EXPLAIN WARD EXHIBIT NO. 1.**

21       A.     Ward Exhibit No. 1 is a summary of DEP's recommended fuel rate components  
22           for the billing period. The components include amounts for (1) capacity related  
23           costs, (2) DERP avoided costs, (3) variable environmental costs, (4) DERP

1 incremental costs, and (5) all other fuel costs, which are referred to as “base” fuel  
2 costs. Ward Exhibit No. 1 presents proposed fuel rates for residential customers  
3 including an amount added to account for the 5% discount provided to residential  
4 customers under DEP’s SC Residential Service Energy Conservation Discount  
5 Rider RECD-2C. As shown on Ward Exhibit No. 6, this discount impacts  
6 approximately 15% of DEP’s South Carolina residential sales. These fuel rate  
7 components are supported by Ward Exhibit Nos. 2 through 14 and are  
8 individually discussed further in my testimony. The following table shows the  
9 rates and monthly charges proposed by the Company in this proceeding as  
10 reflected in Ward Exhibit No. 1. As reflected in the table, the DERP incremental  
11 cost component is computed as a dollar amount per customer account since these  
12 amounts are subject to per-account cost caps established by Act 236. All other  
13 fuel components are computed as a rate per kWh or rate per kW depending on the  
14 particular customer class.

Description	Customer Class			
	Cents / kWh			
	Residential	General Service (Non-demand)	Lighting	General Service (Demand)
<b>Base Fuel Costs</b>				
Base Fuel Cost Component (Over) / Under Collection at June 2018	0.337	0.337	0.337	0.337
Base Fuel Cost Component Projected Billing Period	2.029	2.029	2.029	2.029
Total Base Fuel Cost Component	2.366	2.366	2.366	2.366
Total Base Fuel Cost Component Increased for RECD	2.384			
<b>Capacity Related Cost</b>	Cents / kWh			Cents / kW
Capacity Related Cost Component (Over) / Under Collection at June 2018	0.095	0.000	0.000	1
Capacity Related Cost Component Projected Billing Period	0.581	0.426	0.000	87
Total Capacity Related Cost Component	0.676	0.426	0.000	88
Total Capacity Related Cost Component Increased for RECD	0.681			
<b>Distributed Energy Resource Program Avoided Costs</b>	Cents / kWh			Cents / kW
DERP Avoided Cost (Over) / Under Collection at June 2018	0.001	0.001	0.000	0
DERP Avoided Costs Projected Billing Period	0.002	0.002	0.000	0
Total DERP Avoided Cost Component	0.003	0.003	0.000	0
Total DERP Avoided Cost Component Increased for RECD	0.003			
<b>Environmental Costs</b>	Cents / kWh			Cents / kW
Environmental Component (Over) / Under Collection at June 2018	(0.017)	(0.019)	N/A	(4)
Environmental Component Projected Billing Period	0.036	0.027	N/A	5
Total Environmental Component	0.019	0.008	N/A	1
Total Environmental Cost Component Increased for RECD	0.019			
<b>Total Fuel Cost Factor - Cents/ kWh</b>	<b>3.087</b>	<b>2.803</b>	<b>2.366</b>	<b>2.366</b>
<b>Total Demand Fuel Cost Factor - Cents/ kW</b>				<b>89</b>
	Dollars			
	Residential	Commercial	Industrial	
<b>Distributed Energy Resource Program Incremental Cost per Account</b>				
Total DERP Annual Charge -Including GRT	\$ 8.65	\$ 15.28	\$ 1,200.00	
Total DERP Monthly Charge - Including GRT	\$ 0.72	\$ 1.27	\$ 100.00	

Pursuant to Act 236, the capacity components and the DERP avoided cost components are shown separately. Act 236 also requires that capacity costs and avoided costs of distributed energy resource programs be allocated and recovered among customer classes using the same method that is used to allocate and recover variable environmental costs.

In addition, Ward Exhibit No. 1 includes the projected per-account charge per month of \$0.72, \$1.27 and \$100.00, including Gross Receipts Tax ("GRT"), for South Carolina Residential, General Service, and Industrial customers, for the recovery of 100% of the DERP incremental costs, in accordance with S.C. Code

1 Ann. § 58-27-865(A)(1). The DERP incremental cost component is shown  
2 separately because Act 236 requires that incremental costs of DERP be allocated  
3 among customer classes using the same method that is used to allocate variable  
4 environmental costs.

5 **Q. HOW DID DEP'S FUEL REVENUE BILLINGS COMPARE TO THE**  
6 **FUEL COSTS INCURRED DURING THE MARCH 2017 TO JUNE 2018**  
7 **TIME PERIOD?**

8 A. Ward Exhibit No. 2 is a monthly comparison of fuel revenues billed to South  
9 Carolina retail customers to the actual and estimated jurisdictional fuel costs  
10 attributable to those sales. As shown on Exhibit 2, the projected DEP fuel  
11 recovery status at June 30, 2018 is an under-recovery of \$22.5 million.

12 **Q. PLEASE EXPLAIN WARD EXHIBIT NO. 3.**

13 A. Ward Exhibit No. 3 presents DEP's recommended projected base fuel rate of  
14 2.029¢/kWh for the billing period for the recovery of South Carolina's retail share  
15 of \$1.3 billion of projected system fuel expense. The South Carolina retail share  
16 also incorporates the NEM avoided fuel benefits assigned fully to SC customers.

17 The fuel forecast supporting the projected fuel cost was generated by an  
18 hourly dispatch model that considers the latest forecasted fuel prices, outages at  
19 the generating plants based on planned maintenance and refueling schedules,  
20 forced outages based on historical trends, generating unit performance  
21 parameters, and expected market conditions associated with power purchase and  
22 off-system sales opportunities. In addition, the forecasting model reflects the  
23 joint dispatch of the combined power supply resources of the DEC and DEP.

1   **Q.   PLEASE PROVIDE A STATUS UPDATE OF ENVIRONMENTAL COST**  
2       **COLLECTION AND EXPLAIN HOW THESE COSTS HAVE BEEN**  
3       **TREATED IN THIS FILING.**

4   A.   During the review period, DEP recovered variable environmental costs and the  
5       costs of emission allowances through the environmental component of the fuel  
6       rate. Environmental costs allocated to the South Carolina retail jurisdiction  
7       during the review period were approximately \$1.4 million, as shown by month on  
8       Ward Exhibit No. 4. The Company currently estimates that its deferred  
9       environmental cost balance will be an over-collection of \$775,000 at June 30,  
10      2018.

11   **Q.   HAVE YOU PROVIDED A FORECAST OF ENVIRONMENTAL COSTS?**

12   A.   Yes, Ward Exhibit No. 5 presents DEP's estimated system environmental costs  
13       for the billing period of \$13.3 million. The South Carolina retail portion is  
14       forecasted to be approximately \$1.4 million.

15   **Q.   PLEASE DESCRIBE EMISSION-REDUCING CHEMICALS THAT DEP**  
16       **WILL INCLUDE IN THE PROPOSED FUEL RATE IN THIS FILING.**

17   A.   As Company witness Miller explains more specifically in his testimony, DEP uses  
18       emission-reducing chemicals at its fossil/hydro plants to help it provide low cost,  
19       reliable electric generation for its customers while also complying with state and  
20       federal environmental control obligations. As a result, DEP has included the cost  
21       of magnesium hydroxide, calcium carbonate, ammonia, urea, limestone, lime and  
22       hydrated lime incurred during the review period in its fuel cost recovery  
23       application. Mercury and Air Toxics Standards ("MATS") chemicals that DEP



1 may use in the future to reduce emissions include, but may not be limited to,  
2 activated carbon, mercury oxidation chemicals, and mercury re-emission  
3 prevention chemicals.

4 **Q. HOW DID DEP ALLOCATE ENVIRONMENTAL COSTS?**

5 A. Environmental costs were allocated to Residential, General Service (Non-  
6 demand), and General Service (Demand) rate classes based upon the firm  
7 coincident peak demand experienced. The 2016 firm coincident peak demand  
8 was used to allocate costs for the period March 2017 – December 2017 and the  
9 2017 firm coincident peak demand was used to allocate costs for the period  
10 January 2018 – June 2019. This allocation is shown on Ward Exhibit Nos. 4 and  
11 5.

12 Rates were designed based on costs allocated to the respective rate  
13 classes and the projected energy consumption (in kWh) for the Residential and  
14 General Service (Non-demand) schedules. The rate for the General Service  
15 (Demand) class was based on projected annual demand (in kW). All allocations  
16 were consistent with the methodology approved by this Commission in Order No.  
17 2007-440, issued in DEP's 2007 fuel review proceeding. This methodology has  
18 been consistently used in each fuel case since the issuance of the 2007 Order.

19 **Q. PLEASE PROVIDE A STATUS UPDATE OF CAPACITY RELATED**  
20 **COSTS COLLECTION AND EXPLAIN HOW THESE COSTS HAVE**  
21 **BEEN TREATED IN THIS FILING?**

22 A. During the review period, DEP recovered capacity costs, including PURPA  
23 purchased power capacity costs, as well as natural gas transportation (pipeline

1 reservation/lease costs) and storage costs. Capacity costs allocated to the South  
2 Carolina retail jurisdiction during the review period were approximately \$16.0  
3 million, as shown on Ward Exhibit No. 7. The Company currently estimates that  
4 its deferred capacity cost balance of June 2018 will be an under-recovery of \$2.3  
5 million. As a result of changes made in S.C. Code Ann. § 58-27-865(A)(1) by  
6 Act 236, the avoided capacity component of costs are to be allocated and  
7 recovered from customers under a separate capacity component of the overall fuel  
8 factor based on the same method that is used by the utility to allocate and  
9 recovery variable environmental costs.

10 **Q. PLEASE EXPLAIN WARD EXHIBIT NO. 8.**

11 A. Ward Exhibit No. 8 presents DEP's estimated system capacity related costs,  
12 including PURPA purchased power capacity costs, as well as natural gas  
13 transportation (pipeline reservation/lease costs) and storage costs, for the billing  
14 period of \$211.0 million. The South Carolina retail portion is forecasted to be  
15 approximately \$22.6 million.

16 **Q. HOW DID DEP ALLOCATE CAPACITY COSTS?**

17 A. Capacity costs were allocated to Residential, General Service (Non-demand), and  
18 General Service (Demand) rate classes based upon the firm coincident peak  
19 demand. The 2016 firm coincident peak demand was used to allocate costs for  
20 the period March 2017 – December 2017 and the 2017 firm coincident peak  
21 demand was used to allocate costs for the period January 2018 – June 2019. This  
22 allocation is shown on Ward Exhibit Nos. 7 and 8.

1   **Q.    ARE DERP COSTS AND ASSOCIATED REVENUES INCLUDED IN**  
2       **THIS FUEL FILING?**

3    A.    Yes. Pursuant to S.C. Code Ann. § 58-39-130(A)(2), an electrical utility shall be  
4       permitted to recover its costs related to its approved DERP. The Commission  
5       approved DEP's recovery of DERP costs in Order No. 2015-843. Beginning in  
6       January 2016, revenues were collected from customers on a per account basis, and  
7       Ward Exhibit Nos. 9-14 provide details regarding the allocation and recovery of  
8       the DERP costs.

9   **Q.    PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 9.**

10   A.    Ward Exhibit No. 9 provides DEP's actual DERP incremental cost for the review  
11       period and the estimated DERP incremental cost for the estimated period by  
12       month. Incremental costs that were exclusively assigned to the South Carolina  
13       retail jurisdiction, during the review period were approximately \$1.6 million<sup>1</sup> and  
14       \$729,000 for the estimated period. Ward Exhibit No. 9 also computes a monthly  
15       (over)/under recovery of DERP incremental costs by comparing the actual and  
16       estimated expenses incurred during the review period and the estimated period to  
17       the revenue collected or estimated during the actual and estimated period. As  
18       shown on Exhibit 9, the projected DERP incremental cost recovery status at June  
19       30, 2018 is an approximate over-recovery of \$736,000.

20   **Q.    PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 10.**

21   A.    Ward Exhibit No. 10 establishes the monthly charges by customer class for  
22       incremental DERP (over)/under recovery. DEP proposes the per-account monthly  
23       decrement for over-recovery of \$0.26 \$0.46 and \$39.16 for South Carolina

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<sup>1</sup> The \$1.6 million includes the adjustments listed in line item 28.

1 Residential, Commercial (General Service/Lighting) and Industrial customers,  
2 excluding GRT.

3 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 11.**

4 **A.** Ward Exhibit No. 11 provides DEP's projected DERP incremental cost for the  
5 billing period of \$2.8 million.

6 **Q. WHAT INCREMENTAL COSTS ARE INCLUDED ON WARD EXHIBIT**  
7 **NOS. 9 AND 11?**

8 **A.** S.C. Code Ann. § 58-39-140 defines "incremental costs" as all reasonable and  
9 prudent costs incurred by an electrical utility to implement a distributed energy  
10 resource program. This filing includes the following categories of incremental  
11 costs:

- 12 • Costs associated with purchase power agreements ("PPA") in excess of  
13 the Company's avoided cost rate;
- 14 • The DERP net energy metering ("NEM") Incentive, which is a credit  
15 available to eligible NEM customer-generators, approved in Docket No.  
16 2014-246-E;
- 17 • Avoided capacity costs associated with NEM, recoverable as an  
18 incremental cost based on Section 58-40-20(F)(6);
- 19 • Rebates given to residential and non-residential customers to invest in or  
20 lease distributed generation and carrying costs related to the amortization  
21 of the rebate amounts;
- 22 • An incentive utilized to lower the subscription charge customers will pay  
23 to participate in a Shared Solar program;

- 1 • General and administrative costs, which include the cost of developing
- 2 and implementing programs, cost of incremental labor and additional
- 3 revenue-grade meters; and
- 4 • Carrying costs on under-collected balances due to per account cost caps.

5 **Q. HAS THE COMPANY COMPUTED AN UPDATED DERP NEM**  
6 **INCENTIVE AS PART OF THIS FUEL FILING?**

7 A. Yes. There were no changes to the methodology used to derive the DERP NEM  
8 incentive and value of solar calculation, described in the Settlement Agreement in  
9 Docket No. 2014-246-E and approved in the Commission's Order No. 2015-194  
10 in Docket 2014-246-E. However, the inputs were updated to reflect more current  
11 information. Specifically, the hourly load associated with each rate class and the  
12 hourly solar profiles were updated for calendar year 2017. Additionally, the  
13 billing rates were updated to reflect current rates approved effective January 1,  
14 2018. The analysis reflects updated avoided energy and capacity costs based on  
15 Office of Regulatory Staff's recommended rates in the current avoided cost  
16 Docket No. 1995-1192-E. The calculation of the updated NEM incentive is  
17 shown on Exhibit 15 and the impact is reflected in the billing period amounts  
18 shown on Ward Exhibit Nos. 11 and 12.

19 **Q. HOW DID THE COMPANY ALLOCATE AND RECOVER ITS**  
20 **INCREMENTAL COSTS?**

21 A. DEP allocated 100% of DERP incremental costs to Residential, Commercial  
22 (General Service/Lighting), and Industrial rate classes based upon the firm peak  
23 demand of each class for the prior year. For recovery purposes, each class's

1 allocated portion of incremental costs will be divided by the number of accounts  
2 subject to DERP in each class. This method results in an annual dollar per  
3 account charge for all accounts subject to DERP in each class. The annual charge  
4 is a separate fixed monthly component of the fuel factor for each class of  
5 customer.

6 One exception to this approach is the allocation of the avoided capacity  
7 costs associated with NEM that is included in the DERP incremental costs. This  
8 particular incremental cost has been allocated to South Carolina retail based on its  
9 pro rata share of system peak demand, rather than 100%. This DERP cost is  
10 related to system generation supply resources. Costs and benefits associated with  
11 system generation supply resources are traditionally allocated among all of the  
12 Company's rate jurisdictions since such generation supply resources are operated  
13 as a portfolio to serve its native load customers in all rate jurisdictions.

14 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 12.**

15 A. Ward Exhibit No. 12 shows the calculation of the prospective per-account charge  
16 by customer class in order for DEP to recover DERP forecasted incremental costs.  
17 DEP has estimated per-account charges per month of \$0.98, \$1.73 and \$146.47  
18 for South Carolina Residential, Commercial and Industrial customers, excluding  
19 GRT. Proposed rates are subject to per-account cost caps.

20 **Q. HOW HAS THE COMPANY TREATED UNDER-COLLECTED DERP**  
21 **INCREMENTAL COSTS RESULTING FROM REACHING THE PER**  
22 **ACCOUNT COST CAP IN THE COMPANY'S 2017 FUEL**  
23 **PROCEEDING?**

1 A. In the Company's 2017 fuel proceeding, Docket No. 2017-1-E, the Residential  
2 and Industrial customer classes reached the per-account cost cap set forth in S.C.  
3 Code Ann. § 58-39-150. As a result, the DERP-related rates were limited to a  
4 monthly per-account charge of \$1.00 for South Carolina Residential customers  
5 and \$100.00 for South Carolina Industrial customers, including GRT. Consistent  
6 with Docket No. 2015-53-E, Order No. 2015-514, the Company reallocates cost  
7 in excess of the per-account cost caps among all customer classes with carrying  
8 costs applied at the three-year treasury rate plus 65 basis points. Carrying costs  
9 calculated on the under-collected balance are shown as a separate incremental  
10 cost on Exhibit 9.

11 Q. **HAVE ANY CUSTOMER CLASSES REACHED THE DERP PER**  
12 **ACCOUNT CAP IN THIS FILING?**

13 A. Yes, the Industrial customer class has reached the per-account cap in this filing.  
14 As a result, we have limited the proposed rates to a per-account per month charge  
15 of \$100.00 for South Carolina industrial customers, including GRT.

16 Q. **WHAT DERP AVOIDED COSTS ARE INCLUDED IN THIS FILING?**

17 A. Avoided cost generally refers to the cost the utility avoids when buying power  
18 from another entity rather than generating the power itself. Under PURPA,  
19 payments made to qualifying facilities for power are based on avoided cost rates.  
20 In the DERP context, S.C. Code Ann. §58-39-140(A)(1) states that "avoided cost"  
21 for purposes of separating total DERP program costs between incremental and  
22 avoided costs is "all costs paid under avoided cost rates, or negotiated rates  
23 pursuant to PURPA, which ever is lower." In S.C. Code Ann. § 58-39-120(B),

1        avoided costs are further defined, indicating that they are to be rates most recently  
2        approved by the Commission, or negotiated pursuant to PURPA.

3        **Q.    HOW WILL THE COMPANY ALLOCATE AND RECOVER ITS DERP**  
4        **AVOIDED COSTS?**

5        A.    DEP plans to allocate and recover DERP avoided costs based on the same method  
6        that is used by the utility to allocate and recover variable environmental costs. As  
7        such, DEP will allocate the South Carolina Retail portion of DERP avoided costs  
8        to Residential, General Service (Non-demand), General Service (Demand) and  
9        Lighting rate classes based upon the firm peak experienced by each class during  
10       the review period. The total cost allocated to each class is divided by projected  
11       sales to arrive at a cents per kWh or kW, depending on customer class.

12       **Q.    PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 13.**

13       A.    Ward Exhibit No. 13 shows the calculation of the (over)/under recovery by  
14       customer class of total DERP avoided energy and capacity costs. Avoided energy  
15       and capacity costs allocated to the South Carolina retail jurisdiction during the  
16       review period were approximately \$25,000, as shown by month on Ward Exhibit  
17       No. 13. The Company currently estimates that its deferred environmental cost  
18       balance will be an under-collection of \$29,000 at June 30, 2018.

19       **Q.    HAVE YOU PROVIDED A FORECAST OF DERP AVOIDED COSTS IN**  
20       **WARD EXHIBIT NO. 14?**

21       A.    Yes, Ward Exhibit No. 14 provides DEP's projected DERP avoided cost for the  
22       billing period of \$803,000. The South Carolina retail portion is forecasted to be  
23       approximately \$86,000.



1   **Q.   DO YOU BELIEVE DEP'S ACTUAL FUEL COSTS AND DERP COSTS**  
2       **INCURRED DURING THE PERIOD WERE REASONABLE?**

3   A.   Yes. I believe the costs were reasonable and that DEP has demonstrated that it  
4       has met the criteria set forth in S.C. Code Ann. § 58-27-865. These costs also  
5       reflect DEP's continuing efforts to maintain reliable service and an economical  
6       generation mix, thereby minimizing the total cost of providing service to DEP's  
7       South Carolina retail customers. I also believe that the DERP costs were  
8       reasonable and that DEP has demonstrated that it met the criteria set forth in S.C.  
9       Code Ann. § 58-39-130(A)(2).

10   **Q.   WHAT ARE THE KEY DRIVERS IMPACTING THE PROPOSED FUEL**  
11       **FACTOR?**

12   A.   A number of factors contribute to the change in the proposed total fuel cost  
13       factors for all customer classes. Total base fuel costs projected for the billing  
14       period are increasing primarily due to an under-collection of fuel costs included in  
15       the 2018 proposed base fuel rates that is larger than the under-collection reflected  
16       in existing rates.

17   **Q.   INCLUDING THE DERP INCREMENTAL PER ACCOUNT CHARGES,**  
18       **WHAT IS THE IMPACT TO CUSTOMERS' BILLS IF THE PROPOSED**  
19       **FUEL COST, CAPACITY COST, DERP AVOIDED COST, AND**  
20       **ENVIROMENTAL COST FACTORS ARE APPROVED BY THE**  
21       **COMMISSION?**

22   A.   The impact of all components of this filing to customers' monthly bills of an  
23       average Residential customer using 1000 kWh per month is an increase of \$3.24, or

1           2.7%. The impacts for General Service (Non-demand), Lighting and General  
2           Service (Demand) vary by customer, but are approximately of 0.1%, 0.3% and  
3           1.80%, respectively.

4       **Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?**

5       A. Yes, it does.

**Notes:**

- [1] RECD factor is .7385% and is calculated on Exhibit 6
- [2] The capacity rate for these customers is 88 cents per kW as calculated on exhibits 7 & 8
- [3] The Distributed Energy Resource Programs Avoided costs for these customers is 50 cents per kW as calculated on exhibits 13 & 14
- [4] The Environmental rate for these customers is 1 cent per kW as calculated on exhibits 4 & 5
- [5] The Fuel Cost Factors and Demand Fuel Cost Factor does not include GRT

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Reference	2017	2017	2017	2017	2017	2017	
1	Coal		\$ 23,248,364	\$ 15,505,949	\$ 12,450,251	\$ 31,845,248	\$ 50,492,822	\$ 44,041,825	
2	Gas		60,180,378	49,338,662	47,924,505	55,175,314	49,526,030	47,206,067	
3	Nuclear Fuel		11,488,531	13,356,563	18,117,439	17,642,650	18,279,977	18,279,977	
4	Purchased Power		38,739,130	35,166,921	29,345,795	33,926,455	32,888,614	34,863,883	
5	Fuel Expense Recovered Through Inter-system Sales		(7,384,809)	(6,120,816)	(7,819,960)	(7,261,277)	(9,576,684)	(11,346,433)	
6	Total Fuel Costs	Sum Lines 1 through 5	\$ 126,271,594	\$ 107,247,279	\$ 100,075,130	\$ 131,328,390	\$ 141,678,616	\$ 133,045,319	
7	Eliminate Avoided Fuel Benefit of SC NEM		5,264	3,833	5,485	10,277	8,695	11,166	
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 126,276,858	\$ 107,251,111	\$ 100,080,615	\$ 131,338,667	\$ 141,687,311	\$ 133,056,485	
9	Total System KWH Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580	
10	Eliminate NEM Solar Generation KWH		160,035	116,492	166,722	312,451	271,494	348,667	
11	Adjusted Projected System KWH Sales	Line 9 + Line 10	4,643,556,062	4,187,757,890	4,764,466,873	5,213,477,217	6,176,954,768	5,920,457,247	
12	System Cost per KWH (C/KWH)	Line 8 / Line 11 * 100	2.719	2.561	2.101	2.519	2.294	2.247	
13	SC Retail Sales KWH / Projected SC Retail Sales		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055	
14	Eliminate the NEM Impact		160,035	116,492	166,722	312,451	271,494	348,667	
15	Adjusted Projected SC Retail Sales (W/o solar)	Line 13 + Line 14	436,006,233	447,407,006	534,198,850	491,986,158	640,352,355	574,518,722	
16	SC Base Fuel Costs	Line 12 * Line 15 / 100	\$ 11,856,753	\$ 11,458,375	\$ 11,221,182	\$ 12,394,186	\$ 14,688,435	\$ 12,911,746	
17	Assign 100% of Avoided Fuel Benefit of SC NEM		(5,264)	(3,833)	(5,485)	(10,277)	(8,695)	(11,166)	
18	Adjusted SC Base Fuel Costs	Line 16 + Line 17	\$ 11,851,489	\$ 11,454,542	\$ 11,215,697	\$ 12,383,909	\$ 14,679,740	\$ 12,900,580	
19	Fuel Costs Collected		\$ 9,716,239	\$ 9,969,704	\$ 11,902,564	\$ 10,958,616	\$ 14,145,957	\$ 12,689,444	
20	Fuel Benefits Given in DER NEM Incentive	Line 19 + Line 20	\$ 9,716,239	\$ 9,969,704	\$ 11,902,564	\$ 10,958,616	\$ 14,145,957	\$ 12,689,444	
21	Adjusted Fuel Costs Collected		\$ 9,714,984	\$ 9,968,796	\$ 11,901,261	\$ 10,956,151	\$ 14,143,641	\$ 12,686,517	
22	(Over) / Under Current Month	Line 18 - Line 21	\$ 2,136,505	\$ 1,485,746	\$ (885,564)	\$ 1,427,758	\$ 536,099	\$ 214,063	
23	(Over) / Under Cumulative Balance - February 2017	Prior Year Annual Filing	\$ 6,872,181						
24	Adjustment(s)								
25	(Over) / Under Cumulative Balance	Prior Mo Cum Bal + Line 22 + Line 23 + Line 24	\$ 9,008,686	\$ 10,494,432	\$ 9,808,869	\$ 11,236,627	\$ 11,772,726	\$ 11,986,790	
Line No.	Class	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
26	Coal		\$ 26,090,195	\$ 16,652,226	\$ 15,020,580	\$ 32,729,604	\$ 47,738,212	\$ 13,291,489	\$ 329,106,775
27	Gas		43,263,905	40,761,538	48,990,477	68,321,872	199,040,233	54,548,622	764,277,603
28	Nuclear Fuel		17,617,449	17,381,350	17,647,588	18,131,180	17,239,604	15,781,298	201,088,563
29	Purchased Power		28,997,122	30,394,917	25,263,249	26,489,402	74,463,423	29,823,032	420,891,943
30	Fuel Expense Recovered Through Inter-system Sales		(17,377,847)	(15,163,673)	(17,923,850)	(19,973,203)	(31,345,506)	(15,155,772)	(166,451,830)
31	Total Fuel Costs	Sum Lines 26 through 30	\$ 98,590,824	\$ 90,566,358	\$ 88,996,044	\$ 125,698,855	\$ 307,125,966	\$ 98,288,679	\$ 1,548,913,054
32	Eliminate Avoided Fuel Benefit of SC NEM		16,796	14,843	22,759	28,232	24,054	23,500	174,903
33	Adjusted System Fuel Costs	Line 31 + Line 32	\$ 98,607,620	\$ 90,581,201	\$ 89,018,803	\$ 125,727,087	\$ 307,150,020	\$ 98,312,179	\$ 1,549,087,957
34	Total actual /Projected System Sales (w solar impact)		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
35	Eliminate NEM Solar Generation KWH		524,433	463,456	710,617	881,482	751,073	733,769	5,440,691
36	Adjusted Projected System KWH Sales(w/o nrem impact)	Line 34 + Line 35	5,356,941,452	4,845,986,244	4,496,390,225	5,031,747,117	6,789,854,924	5,020,434,692	62,448,024,711
37	System Cost per KWH (C/KWH)	Line 33 / Line 36 * 100	1.841	1.869	1.980	2.409	4.524	1.958	
38	Actual/Projected SC Retail Sales (w/ solar)		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
39	Eliminate the NEM Impact		524,433	463,456	710,617	881,482	751,073	733,769	5,440,691
40	Adjusted Projected SC Retail Sales (W/o solar)	Line 38 + Line 39	531,266,010	555,470,453	473,385,147	439,749,195	711,879,353	547,256,047	6,383,475,529
41	SC Base Fuel Costs	Line 37 * Line 40 / 100	\$ 9,779,251	\$ 10,382,856	\$ 9,372,002	\$ 10,987,911	\$ 32,203,008	\$ 10,716,588	\$ 157,972,293
42	Assign 100% of Avoided Fuel Benefit of SC NEM		(16,796)	(14,843)	(22,759)	(28,232)	(24,054)	(23,500)	(174,903)
43	Adjusted SC Base Fuel Costs	Line 41 + Line 42	\$ 9,762,455	\$ 10,368,013	\$ 9,349,243	\$ 10,959,679	\$ 32,178,954	\$ 10,693,088	\$ 157,797,390
44	Fuel Costs Collected		\$ 11,729,326	\$ 12,265,213	\$ 10,447,029	\$ 9,701,097	\$ 15,719,471	\$ 12,080,335	\$ 141,325,195
45	Fuel Benefits Given in DER NEM Incentive		(4,682)	(4,007)	(6,337)	(8,009)	(6,688)	(6,556)	(47,493)
46	Adjusted Fuel Costs Collected	Line 44 + Line 45	\$ 11,724,644	\$ 12,261,166	\$ 10,440,692	\$ 9,693,088	\$ 15,712,783	\$ 12,073,779	\$ 141,277,702
47	(Over) / Under Recovered Current Month	Line 43 - Line 46	\$ (1,962,189)	\$ (1,893,153)	\$ (1,091,449)	\$ 1,266,591	\$ 16,466,171	\$ (1,380,991)	\$ 16,519,689
48	Adjustment(s)								2,353
49	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 47 + Line 48	\$ 10,024,601	\$ 8,131,448	\$ 7,039,999	\$ 8,306,590	\$ 24,772,761	\$ 23,394,223	\$ 23,394,223

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Class	Reference	Estimated	Estimated	Estimated	Estimated	Sixteen Months
			March 2018	April 2018	May 2018	June 2018	Ended June 2018
50	Coal		\$ 17,145,758	\$ 9,730,984	\$ 6,393,708	\$ 19,716,135	\$ 382,093,361
51	Gas		\$ 51,139,383	\$ 33,075,255	\$ 40,916,239	\$ 47,210,732	\$ 936,619,212
52	Nuclear Fuel		\$ 13,884,551	\$ 12,766,341	\$ 15,582,286	\$ 17,100,975	\$ 260,422,715
53	Purchased Power		\$ 32,456,208	\$ 42,762,702	\$ 39,631,710	\$ 38,857,191	\$ 574,590,755
54	Fuel Expense Recovered Through Intersystem Sales		\$ (8,006,009)	\$ (1,985,118)	\$ (6,152,728)	\$ (7,773,284)	\$ (190,408,969)
55	Total Fuel Costs	Sum Lines 50 through 54	\$ 106,579,891	\$ 96,350,164	\$ 96,371,216	\$ 115,111,748	\$ 1,963,326,073
56	Eliminate Avoided Fuel Benefit of SC NEM		\$ 33,455	\$ 37,340	\$ 40,152	\$ 48,238	\$ 329,088
57	Adjusted System Fuel Costs	Line 55 + Line 56	\$ 106,613,346	\$ 96,387,504	\$ 96,411,369	\$ 115,154,986	\$ 1,963,655,162
58	Total System KWH Sales (w/ solar)						
59	Eliminate NEM Solar Generation KWH		\$ 4,653,962,859	\$ 4,508,800,151	\$ 4,560,908,805	\$ 5,344,565,169	\$ 81,510,821,004
60	Adjusted Projected System KWH Sales (w/o solar)	Line 58 + Line 59	\$ 1,044,569	\$ 1,166,155	\$ 1,253,974	\$ 1,350,340	\$ 10,255,729
61	System Cost per KWH (C/KWH)	Line 57 / Line 60 * 100	2.290	2.137	2.113	2.154	2.409
62	Projected SC Retail Sales (w/ solar)		\$ 411,013,563	\$ 510,104,190	\$ 500,130,869	\$ 552,817,186	\$ 8,352,100,646
63	Eliminate the NEM impact		\$ 1,044,569	\$ 1,166,155	\$ 1,253,974	\$ 1,350,340	\$ 10,255,729
64	Adjusted Projected SC Retail Sales (w/o solar)	Line 62 + Line 63	\$ 412,058,132	\$ 511,270,346	\$ 501,384,843	\$ 554,167,525	\$ 8,362,356,376
65	SC Base Fuel Costs						
66	Assign 100% of Avoided Fuel Benefit of SC NEM	Line 61 * Line 64 / 100	\$ 9,437,342	\$ 10,926,927	\$ 10,595,676	\$ 11,937,180	\$ 200,869,418
67	Adjusted SC Base Fuel Costs	Line 65 + Line 66	\$ 9,403,887	\$ 10,889,587	\$ 10,555,524	\$ 11,893,942	\$ 200,540,330
68	Fuel Costs Collected						
69	Fuel Benefits Given in DER NEM Incentive	Line 68 + Line 69	\$ 9,084,719	\$ 11,273,303	\$ 11,052,892	\$ 12,217,260	\$ 184,953,369
70	Adjusted Fuel Costs Collected	Line 67 - Line 70	\$ (9,511)	\$ (9,285)	\$ (9,982)	\$ (10,747)	\$ (87,017)
71	(Over) / Under Recovered Current Month Adjustment(s)	Line 67 * Line 70	\$ 328,679	\$ (374,431)	\$ (487,387)	\$ (312,571)	\$ 15,673,978
72	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 71 + Line 72	\$ 23,722,902	\$ 23,348,470	\$ 22,861,083	\$ 22,548,512	\$ 22,548,512
73							
74	SC Projected SC Retail Sales July 2018 - June 2019						6,698,199,477
75	SC Base Fuel Increment / (Decrement) Calculated Rate (cents / KWH)	Line 73 / Line 74 * 100					0.337

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED BILLING PERIOD BASE FUEL COSTS  
FOR THE 12 MONTHS JULY 2018 TO JUNE 2019

Exhibit 3  
DOCKET NO 2018-1-E

Line No.	Description	Reference	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	Billing Period Twelve Months Ended Jun-19
1	Coal		\$ 28,730,167	\$ 25,617,917	\$ 12,176,269	\$ 6,045,671	\$ 5,324,288	\$ 15,287,349	
2	Gas		52,865,921	50,029,294	43,599,485	39,857,463	45,750,787	48,230,326	
3	Nuclear Fuel		17,353,067	17,386,393	15,051,988	14,777,235	17,369,075	17,927,284	
4	Purchased Power		43,570,010	42,437,151	38,049,609	35,795,969	28,727,631	30,812,513	
5	Fuel Expense Recovered Through Intersystem Sales		(7,173,798)	(5,615,097)	(5,930,803)	(9,152,987)	(14,318,953)	(5,610,021)	
6	Total Fuel Costs	Sum Lines 1 through 6	\$ 135,345,367	\$ 129,855,658	\$ 102,946,548	\$ 87,323,351	\$ 82,852,828	\$ 106,647,451	
7	Eliminate Avoided Fuel Benefit of SC NEM		45,576	46,334	46,687	47,781	45,486	42,480	
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 135,390,943	\$ 129,901,992	\$ 102,993,235	\$ 87,371,132	\$ 82,898,314	\$ 106,689,931	
9	Total Projected System Sales (w/solar impact)		6,035,990,340	6,046,836,934	5,391,900,583	4,610,783,803	4,534,155,911	5,201,927,524	
10	Eliminate NEM Solar Generation kWh		1,436,821	1,460,723	1,471,842	1,506,336	1,433,984	1,339,223	
11	Adjusted Projected System kWh Sales (w/o solar impact)	Line 9 + Line 10	6,037,427,161	6,048,297,657	5,393,372,425	4,612,290,139	4,535,589,895	5,203,266,747	
12	System Cost per kWh (c/kWh)	Line 8 / Line 11 * 100	2.243	2.148	1.910	1.894	1.828	2.050	
13	Adjusted Projected SC Retail Sales (w/o solar impact)		615,363,144	627,142,827	582,456,275	526,939,314	489,671,821	544,037,428	
14	SC Base Fuel Costs	Line 12 * Line 13 / 100	\$ 13,799,686	\$ 13,469,427	\$ 11,122,736	\$ 9,981,871	\$ 8,949,876	\$ 11,155,168	
15	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)		(37,407)	(38,031)	(38,321)	(39,220)	(37,336)	(34,868)	
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 13,762,279	\$ 13,431,396	\$ 11,084,415	\$ 9,942,651	\$ 8,912,540	\$ 11,120,300	
17	Coal		\$ 49,264,113	\$ 39,739,996	\$ 14,316,441	\$ 3,761,010	\$ 4,889,616	\$ 17,105,647	\$ 222,258,485
18	Gas		26,766,481	24,177,655	44,868,689	31,891,933	36,287,087	47,617,413	\$ 491,942,535
19	Nuclear Fuel		18,080,859	16,143,243	13,891,466	16,515,197	17,135,259	16,397,532	\$ 198,028,599
20	Purchased Power		38,065,970	37,226,705	38,048,558	38,519,430	39,142,220	42,593,553	\$ 452,989,320
21	Fuel Expense Recovered Through Intersystem Sales		(4,108,980)	(4,025,101)	(6,520,652)	(9,163,608)	(6,530,386)	(8,151,415)	\$ (86,301,801)
22	Total Fuel Costs	Sum Lines 17 through 21	\$ 128,068,443	\$ 113,262,498	\$ 104,604,502	\$ 81,523,962	\$ 90,923,796	\$ 115,562,730	\$ 1,278,917,137
23	Eliminate Avoided Fuel Benefit of SC NEM		48,051	49,361	59,777	68,277	71,372	75,145	\$ 646,327
24	Adjusted System Fuel Costs	Line 22 + Line 23	\$ 128,116,494	\$ 113,311,859	\$ 104,664,279	\$ 81,592,239	\$ 90,995,168	\$ 115,637,875	\$ 1,279,563,464
25	Total Projected System Sales (w/solar impact)		5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887	5,303,092,725	\$ 62,836,279,402
26	Eliminate NEM Solar Generation kWh		1,514,854	1,556,153	1,884,509	2,153,506	2,250,052	2,369,002	\$ 20,376,004
27	Adjusted Projected System kWh Sales (w/o solar impact)	Line 25 + Line 26	5,929,646,846	5,372,642,023	5,089,206,249	4,693,677,597	4,635,776,939	5,305,461,727	\$ 62,856,655,405
28	System Cost per kWh (c/kWh)	Line 24 / Line 27 * 100	2.161	2.109	2.057	1.738	1.963	2.180	\$ 2.036
29	Adjusted Projected SC Retail Sales (w/o solar impact)		613,419,576	578,810,197	549,831,762	533,191,453	509,904,634	547,807,049	\$ 6,718,575,481
30	SC Base Fuel Costs	Line 28 * Line 29 / 100	\$ 13,253,600	\$ 12,207,413	\$ 11,307,804	\$ 9,268,699	\$ 10,008,863	\$ 11,940,006	\$ 136,465,147
31	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)		(39,444)	(40,520)	(49,077)	(56,060)	(58,601)	(61,701)	\$ (530,586)
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 13,214,156	\$ 12,166,893	\$ 11,258,727	\$ 9,212,639	\$ 9,950,262	\$ 11,878,305	\$ 135,934,561
33	Projected SC Retail Sales								\$ 6,698,199,477
34	Adjusted SC System Cost per kWh (c/kWh)								\$ 2.029

Note 1: Equals total NEM avoided fuel benefit less portion included in DERP NEM incentive.

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Residential								Review Period Twelve Months Ended Feb-18
		59.11% Winter 2017 Firm Coincident Peak (CP) KWS	53.59% Winter 2016 Firm Coincident Peak (CP) KWS	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	
1										
2										
3	Total Reagents			\$ 1,121,960	\$ 553,725	\$ 732,232	\$ 1,342,906	\$ 2,123,578	\$ 2,226,112	
4	Emission Allowances			(9,156)	3,307	1,296	(176,970)	2,214	5,041	
5	Amounts Recovered in Off-System Sales			(96,097)	(105,473)	(115,469)	(33,154)	(23,903)	(246,958)	
6	Net Environmental Costs		Sum Lines 3 thru 5	\$ 1,016,707	\$ 451,559	\$ 618,060	\$ 1,132,782	\$ 2,101,889	\$ 1,984,195	
7	Total System Sales KWh			4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580	
8	Environmental System Costs Incurred c/kwh		Line 6 / Line 7*100	0.022	0.011	0.013	0.022	0.034	0.034	
9	SC Retail Sales KWh			435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055	
10	SC Environmental Costs		Line 8 * Line 9 / 100	\$ 95,432	\$ 48,232	\$ 69,279	\$ 106,837	\$ 217,816	\$ 192,440	
11	Residential Environmental Cost Allocated by Firm CP		Line 10 * Line 2	\$ 51,143	\$ 25,848	\$ 37,127	\$ 57,256	\$ 116,730,879	\$ 103,132	
12	SC Residential KWh Sales			155,728,866	128,069,097	136,252,020	167,932,120	206,317,399	195,706,419	
13	SC Residential Environmental Costs Incurred c/kwh		Line 11 / Line 12 * 100	0.033	0.020	0.027	0.034	0.057	0.053	
14	SC Residential Environmental Costs Billed c/kwh			0.042	0.042	0.042	0.042	0.035	0.035	
15	SC Residential Environmental Costs (Over) / Under Recovery		(Line 13 - Line 14) * Line 12 / 100	\$ (13,791)	\$ (27,527)	\$ (19,646)	\$ (12,726)	\$ 45,068	\$ 35,153	
16	Prior Year Balance and Misc. Adjustments(s)		Prior Year Annual Filing	\$ (324,377)						
17	Cumulative SC Residential Environmental Costs (Over) / Under Recovery		Line 15 + Prior Month Cum. Bal	\$ (338,168)	\$ (365,695)	\$ (385,341)	\$ (398,067)	\$ (352,999)	\$ (317,846)	
18	Total Reagents			\$ 1,214,712	\$ 783,524	\$ 573,081	\$ 1,566,799	\$ 2,370,135	\$ 785,235	15,394,000
19	Emission Allowances			4,511	(7,931)	1,683	(18,076)	2,739	(66,696)	(258,037)
20	Amounts Recovered in Off-System Sales			(373,126)	(92,332)	(29,107)	(44,776)	(19,836)	(34,731)	(1,214,962)
21	Net Environmental Costs		Sum Lines 18 thru 20	\$ 846,097	\$ 683,262	\$ 545,657	\$ 1,503,947.00	\$ 2,353,038	\$ 683,808	\$ 13,921,000
22	Total System Sales			5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
23	Environmental System Costs Incurred c/kwh		Line 21 / Line 22 * 100	0.016	0.014	0.012	0.030	0.035	0.014	
24	SC Retail Sales KWh			530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
25	SC Environmental Costs		Line 23 * Line 24 / 100	\$ 83,836	\$ 78,261	\$ 57,370	\$ 131,197	\$ 246,470	\$ 74,450	\$ 1,401,619
26	Residential Environmental Cost Allocated by Firm CP		Line 25 * Line 2 (or line 1)	\$ 44,929	\$ 41,941	\$ 30,746	\$ 70,310	\$ 145,698	\$ 44,010	\$ 768,871
27	SC Residential KWh Sales			184,493,017	146,380,809	134,485,077	177,212,921	229,755,069	205,274,470	2,128,607,284
28	SC Residential Environmental Costs Incurred c/kwh		Line 26 / Line 27 * 100	0.024	0.029	0.023	0.040	0.050	0.021	0.036
29	SC Residential Environmental Costs Billed c/kwh			0.035	0.035	0.035	0.035	0.035	0.035	
30	SC Residential Environmental Costs (Over) / Under Recovery		(Line 28 - Line 29) * Line 27 / 100	\$ (19,149)	\$ (8,894)	\$ (15,979)	\$ 8,725	\$ 44,655	\$ (27,325)	\$ (11,436)
31	Cumulative SC Residential Environmental Costs (Over) / Under Recovery		Line 30 + Prior Month Cum. Bal	\$ (336,995)	\$ (345,889)	\$ (361,868)	\$ (353,143)	\$ (308,488)	\$ (335,813)	\$ (335,813)
32	Adjustment(s)									-
33	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery		Line 31 + Line 32							\$ (335,813)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.		Residential							
1	Winter 2017 Firm Coincident Peak (CP) KWS	59.11%							
2	Winter 2016 Firm Coincident Peak (CP) KWS	53.59%							
Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018		
34	Total Reagents		\$ 787,583	\$ 548,366	\$ 346,572	\$ 1,143,121	\$ 18,219,642		
35	Emission Allowances		833	680	564	1,790	\$ (254,170)		
36	Amounts Recovered in Off-System Sales		(10,052)	-	(2,048)	(3,613)	\$ (1,230,675)		
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 778,364	\$ 549,046	\$ 345,088	\$ 1,141,298	\$ 16,734,796		
38	Projected Total System Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004		
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.017	0.012	0.008	0.021			
40	Projected SC Retail Sales KWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646		
41	SC Environmental Costs	Line 39 * Line 40/ 100	\$ 68,741	\$ 62,116	\$ 37,841	\$ 118,051	\$ 1,688,368		
42	Residential Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 40,635	\$ 36,719	\$ 22,369	\$ 69,784	\$ 938,379		
43	Projected SC Residential KWh Sales		143,961,446	157,681,226	140,660,012	176,681,596	2,747,591,563.83		
44	SC Residential Environmental Costs Incurred c/kwh	Line 42 / Line 43 * 100	0.028	0.023	0.016	0.039			
45	SC Residential Environmental Costs Billed c/kwh		0.035	0.035	0.035	0.035			
46	SC Residential Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ (9,388)	\$ (18,071)	\$ (26,507)	\$ 8,392	\$ (57,010)		
47	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum. Bal	\$ (345,201)	\$ (363,272)	\$ (389,778)	\$ (381,387)	\$ (381,387)		
48	Adjustment(s)						\$ -		
49	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ (381,387)		
50	SC Projected Residential KWh Sales July 2018 - June 2019						2,298,022,389		
51	SC Residential Environmental Increment / (Decrement) Calculated Rate (c/kwh)	(Line 49 / Line 50 * 100)					(0.017)		





DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.		General Service (non demand)					
1		5.46%					
2	Winter 2017 Firm Coincident Peak (CP) KWhs Winter 2016 Firm Coincident Peak (CP) KWhs	5.41%					
Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
34	Total Reagents		\$ 787,583	\$ 548,366	\$ 346,572	\$ 1,143,121	\$ 18,219,642
35	Emission Allowances		833	680	564	1,790	\$ (254,170)
36	Amounts Recovered in Off-System Sales		(10,052)	-	(2,048)	(3,613)	\$ (1,230,675)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 778,364	\$ 549,046	\$ 345,088	\$ 1,141,298	\$ 16,734,796
38	Projected Total System Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.017	0.012	0.008	0.021	
40	Projected SC Retail Sales KWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
41	SC Environmental Costs	Line 40 * Line 39 / 100	\$ 68,741	\$ 62,116	\$ 37,841	\$ 118,051	\$ 1,688,368
42	General Service (Non-demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 3,754	\$ 3,392	\$ 2,066	\$ 6,447	\$ 91,614
43	Projected General Service (Non-demand) KWh Sales		18,983,274	23,240,933	23,715,501	24,777,789	393,280,386
44	General Service (Non-demand) Environmental Costs Incurred c/kwh	Line 42 / Line 43 *100	0.020	0.015	0.009	0.026	
45	General Service (Non-demand) Environmental Costs Billed c/kwh		0.024	0.024	0.024	0.024	
46	General Service (Non-demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	(802.13)	\$ (2,186)	\$ (3,625)	\$ 500	\$ (8,317)
47	Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery Adjustment(s)	Line 46 + Prior Month Cum. Bal	\$ (48,718)	\$ (50,904)	\$ (54,529)	\$ (54,029)	\$ (54,029)
48	Adjusted Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ -
49							\$ (54,029)
50	SC Projected General Service (Non-demand) KWh Sales July 2018 - June 2019						289,418,823
51	SC General Service (Non-demand) Environmental Increment / (Decrement) Calculated Rate (c/kwh)	(Line 49 / Line 50 * 100)					(0.019)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE (DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	General Service (Demand)									
1	35.43%									
2	Winter 2017 Firm Coincident Peak (CP) KWs Winter 2016 Firm Coincident Peak (CP) KWs 41.00%									
Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017		
3	Total Reagents		\$ 1,121,960	\$ 553,725	\$ 732,232	\$ 1,342,906	\$ 2,123,578	\$ 2,226,112		
4	Emission Allowances		(9,156)	3,307	1,296	(176,970)	2,214	5,041		
5	Amounts Recovered in Off-System Sales		(96,097)	(105,473)	(115,469)	(33,154)	(23,903)	(246,958)		
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 1,016,707	\$ 451,559	\$ 618,060	\$ 1,132,782	\$ 2,101,889	\$ 1,984,195		
7	Total System Sales KWh		4,643,396,027	4,187,641,298	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580		
8	Environmental System Costs Incurred c/kwh	Line 6 / Line 7 * 100	0.022	0.011	0.013	0.022	0.034	0.034		
9	SC Retail Sales KWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055		
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 95,432	\$ 48,232	\$ 69,279	\$ 106,837	\$ 217,816	\$ 192,440		
11	SC General Service (Demand) Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 39,129	\$ 19,776	\$ 28,405	\$ 43,805	\$ 89,308	\$ 78,904		
12	SC General Service (Demand) KW Sales		662,683	640,150	693,150	661,633	692,814	691,771		
13	SC General Service (Demand) Environmental Costs Incurred c / kW	Line 11 / Line 12 * 100	6	3	4	7	13	11		
14	SC General Service (Demand) Environmental Costs Billed c / kW		6	6	6	6	7	7		
15	SC General Service (Demand) Environmental Costs (Over) / Under Recovery	(Line 13 - Line 14) * Line 12 / 100	\$ (632)	\$ (18,633)	\$ (13,184)	\$ 4,107	\$ 40,811	\$ 30,480		
16	Prior Year Balance and Misc. Adjustments)	Prior Year Annual Filing	\$ (247,945)							
17	Cumulative SC Environmental Costs (Over) / Under Recovery	Line 15 + Prior Month Cum Bal	\$ (248,577)	\$ (267,210)	\$ (280,394)	\$ (276,287)	\$ (235,476)	\$ (204,996)		
Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18	
18	Total Reagents		\$ 1,214,712	\$ 783,524	\$ 573,081	\$ 1,566,799	\$ 2,370,135	\$ 785,235	\$ 15,394,000	
19	Emission Allowances		4,511	(7,931)	1,683	(18,076)	(19,836)	(66,696)	(258,037)	
20	Amounts Recovered in Off-System Sales		(373,126)	(92,332)	(29,107)	(44,776)	(19,836)	(34,731)	(1,214,962)	
21	Net Environmental Costs	Sum Lines 18 thru 20	\$ 846,097	\$ 683,262	\$ 545,657	\$ 1,503,947	\$ 2,353,038	\$ 683,808	\$ 13,921,000	
22	Total System Sales KWh		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020	
23	Environmental System Costs Incurred c/kwh	Line 21 / Line 22 * 100	0.016	0.014	0.012	0.030	0.035	0.014	6.378034,838	
24	SC Retail Sales KWh		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	1,401,619	
25	General Service (Demand) Environmental Cost Allocated by Firm CP	Line 23 * Line 24 / 100	\$ 83,836	\$ 78,261	\$ 57,370	\$ 131,197	\$ 246,470	\$ 74,450	\$ 556,792	
26	SC General Service (Demand) KW Sales	Line 25 * Line 2 (or line 1)	\$ 34,374	\$ 32,088	\$ 23,523	\$ 53,793	\$ 87,313	\$ 26,374.19	\$ 8,117,116	
27	SC General Service (Demand) Environmental Costs Incurred c / kW		699,229	712,886	665,214	595,057	712,986	689,543	7	
28	SC General Service (Demand) Environmental Costs Billed c / kW	Line 26 / Line 27 * 100	5	5	4	9	12	4	7	
29	SC General Service (Demand) Environmental Costs (Over) / Under Recovery	(Line 28 - Line 29) * Line 27 / 100	\$ (14,572)	\$ (17,814)	\$ (23,042)	\$ 12,139	\$ 37,404	\$ (21,894)	\$ 15,170	
30	Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery	Line 30 + Prior Month Cum Bal	\$ (219,568)	\$ (237,382)	\$ (260,424)	\$ (248,285)	\$ (210,881)	\$ (232,775)	\$ (232,775)	
31	Adjusted Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery									
32	Adjusted Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery									
33	Adjusted Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery	Line 31 + Line 32								

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE (DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	
1	Winter 2017 Firm Coincident Peak (CP) KWS
2	Winter 2016 Firm Coincident Peak (CP) KWS

General Service (demand)
35.43%
41.00%

Exhibit 4  
Page 3b of 3  
DOCKET NO 2018-1-E

Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
34	Total Reagents		\$ 787,583	\$ 548,366	\$ 346,572	\$ 1,143,121	\$ 18,219,642
35	Emission Allowances		833	680	564	1,790	(254,170)
36	Amounts Recovered in Off-System Sales		(10,052)	-	(2,048)	(3,613)	(1,230,675)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 778,364	\$ 549,046	\$ 345,088	\$ 1,141,298	\$ 16,734,796
38	Projected Total System Sales KWh		4,653,962,899	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.017	0.012	0.008	0.021	
40	Projected SC Retail Sales KWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 68,741	\$ 62,116	\$ 37,841	\$ 118,051	\$ 1,688,368
42	General Service (Demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 24,352	\$ 22,005	\$ 13,405	\$ 41,820	\$ 658,374
43	Projected SC General Service (Demand) KW Sales		657,929	769,162	700,963	853,386	11,098,556
44	SC General Service (Demand) Environmental Costs Incurred c / KW	Line 42 / Line 43 * 100	4	3	2	5	
45	SC General Service (Demand) Environmental Costs Billed c / KW		7	7	7	7	
46	SC General Service (Demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ (21,703)	\$ (31,836)	\$ (35,662)	\$ (17,917)	\$ (91,949)
47	Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum Bal	\$ (254,478)	\$ (286,314)	\$ (321,977)	\$ (339,894)	\$ (339,894)
48	Adjustment(s)						\$ -
49	Adjusted Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ (339,894)
50	SC Projected General Service (Demand) KW Sales July 2018 - June 2019						9,217,404
51	SC General Service (Demand) Environmental Increment / (Decrement) Calculated Rate (c/kw)	(Line 49 / Line 50*100)					(4)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS  
FOR THE 12 MONTHS JULY 2018 TO JUNE 2019

Exhibit 5  
DOCKET NO 2018-1-E

Line No.	Class	Winter 2017 Firm Coincident Peak (CP) KWh	CP %
1	Residential	708,895	59.11%
2	General Service (Non-demand)	65,487	5.46%
3	General Service (Demand)	424,824	35.43%
	Total SC	1,199,207	99.00%

Line No.	Description	Reference	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	Billing Period Twelve Months Ended Jun-19
4	Total Reagents		\$ 1,708,565	\$ 1,512,683	\$ 703,755	\$ 343,535	\$ 309,873	\$ 913,466	
5	Emission Allowances		2,659	2,341	1,002	445	402	1,432	
6	Estimated Amounts Recovered in Off-system Sales		(3,569)	(1,505)	(690)	(1,629)	(4,972)	(610)	
7	Net Environmental Costs	Sum Lines 4 through 6	\$ 1,707,655	\$ 1,513,519	\$ 704,067	\$ 342,351	\$ 305,303	\$ 914,288	
8	Total Projected System Sales	Line 7 / Line 8 * 100	6,035,990,340	6,046,836,934	5,391,900,583	4,610,783,803	4,534,155,911	5,201,927,524	
9	Environmental System Costs Incurred c/kwh		0.028	0.025	0.013	0.007	0.007	0.018	
10	Projected SC Retail Sales	Line 9 * Line 10 / 100	613,926,323	625,682,104	580,984,433	525,432,978	488,237,837	542,698,205	
11	SC Environmental Costs		173,687	156,608	75,864	39,013	32,875	95,384	

Line No.	Description	Reference	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Billing Period Twelve Months Ended Jun-19
12	Total Reagents		0 \$	3,063,591	\$ 2,423,517	\$ 870,629	\$ 214,972	\$ 273,126	\$ 997,153
13	Emission Allowances		0	3,561	2,814	1,009	231	387	1,343
14	Estimated Amounts Recovered in Off-system Sales		0	(34,821)	(15,659)	(6,822)	(3,330)	(3,009)	(4,417)
15	Net Environmental Costs	Sum Lines 12 thru 14	\$ 3,032,331	\$ 2,410,672	\$ 864,816	\$ 211,873	\$ 270,504	\$ 994,079	\$ 13,271,458
16	Total Projected System Sales	Line 15 / Line 16 * 100	5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887	5,303,092,725	62,836,279,402
17	Environmental System Costs Incurred c/kwh		0.051	0.045	0.017	0.005	0.006	0.019	0.021
18	Projected SC Retail Sales	Line 17 * Line 18 / 100	611,904,722	577,254,045	547,947,253	531,038,947	507,654,583	545,438,047	6,698,199,477
19	SC Environmental Costs		312,999	259,085	93,148	23,982	29,637	102,244	1,414,706
20	SC Environmental Costs Allocated on Firm CP KWhs								
21	Residential	Total Line 19 * Line 1							\$ 836,285
22	General Service (Non-demand)	Total Line 19 * Line 2							\$ 77,256
23	General Service (Demand)	Total Line 19 * Line 3							\$ 501,166
	Total SC	Sum Lines 20 through 22							\$ 1,414,706

24	Projected SC Retail Sales KWh (July 2017-June 2018)								
25	Residential								2,298,022,389
26	General Service (Non-demand)								289,418,823
27	General Service (Demand)								4,015,466,686
28	Lighting								95,291,579
	Total SC	Sum Lines 24 through 27							6,698,199,477

29	Projected Average Environmental Fuel Cost c/kwh								
30	Residential	Line 20 / Line 24 * 100							0.036
	General Service (Non-demand)	Line 21 / Line 25 * 100							0.027

31	Projected Average Environmental Fuel Cost c/kwh								
32	Projected SC KW sales General Service (Demand)	Line 22 / Line 31 * 100							9.217,404
	General Service (Demand) (c/kwh)								5

**Exhibit 6**  
**DOCKET NO 2018-1-E**

**DUKE ENERGY PROGRESS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**REVENUE ADJUSTMENT FACTOR FOR RECD**  
**FOR THE 12 MONTHS ENDING MARCH 31, 2017 TO FEBRUARY 28, 2018**

**Residential Adjustment Factor**

(1) Billed kWh (12ME 2/28/18)	Per Books	2,146,886,221	
(2) Billed RECD kWh (12ME 2/28/18)		317,077,982	(a)
(3) RECD kWh Percent of Total Billed	Line 2 / Line 1	14.7692%	
(4) RECD Discount	RECD Discount	5.0000%	(b)
(5) RECD Impact (Weighted Discount)	Line 3 X Line 4	0.7385%	

***Notes:***

- (a) Energy billed and discounted pursuant to Residential Energy Conservation Discount, Rider RECD-2C.  
(b) Five-percent discount provided under Residential Energy Conservation Discount, Rider RECD-2C.

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Residential									
1	Winter 2017 Firm Coincident Peak (CP) kWh									
2	Winter 2016 Firm Coincident Peak (CP) kWh									
59.11% 53.59%										
Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	Review Period Twelve Months Ended Feb-18	
3	PURPA Purchased Power Capacity Costs		\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 7,651,932	\$ 7,841,805		
4	Firm Natural Gas Transportation and Storage Costs									
5	Total Capacity Costs	Lines 3 + Line 4	\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 19,182,000	\$ 19,722,603		
6	Total System kWh Sales									
7	Capacity Related System Costs Incurred (C/kWh)	Line 5 / Line 6 * 100	4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580		
8	SC Retail Sales kWh		0.0962	0.1109	0.0917	0.1573	0.3106	0.3331		
9	SC Capacity Related Costs	Line 7 * Line 8 / 100	435,846,198	447,290,514	534,032,328	491,673,707	640,080,861	574,170,055		
10	Residential Capacity Related Costs Allocated by Firm CP	Line 9 * Line 2	\$ 224,689	\$ 265,811	\$ 262,541	\$ 414,365	\$ 1,065,295	\$ 1,025,113		
11	SC Residential kWh Sales		155,728,866	128,069,097	136,252,020	167,932,120	206,317,399	195,706,419		
12	SC Residential Capacity Related Cost Incurred (C/kWh)	Line 10 / Line 11 * 100	0.144	0.208	0.193	0.247	0.516	0.524		
13	SC Residential Non-Fuel Base Rates Billed (C/kWh)	2017-1E	0.181	0.181	0.181	0.181	0.471	0.471		
14	SC Capacity Related (Over) / Under Recovery	(Line 12 - Line 13) * Line 11 / 100	\$ (56,692)	\$ 34,522	\$ 16,521	\$ 111,106	\$ 92,732	\$ 102,543		
15	Prior Year Balance and Misc. Adjustments)	Prior Year Annual Filing	\$ 634,703							
16	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 14 + Prior Month Cum Bal	\$ 578,011	\$ 612,533	\$ 629,054	\$ 740,160	\$ 832,892	\$ 935,435		
Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18	
17	PURPA Purchased Power Capacity Costs		\$ 6,928,942	\$ 5,334,274	\$ 3,517,629	\$ 3,901,444	\$ 2,569,809	\$ 4,995,847	\$ 64,420,576	
18	Firm Natural Gas Transportation and Storage Costs		11,526,501	11,368,833	11,123,697	11,895,757	11,484,861	11,576,524	92,387,099	
19	Total Capacity Costs	Line 17 + Line 18	\$ 18,455,443	\$ 16,703,107	\$ 14,641,326	\$ 15,797,201	\$ 14,054,670	\$ 16,572,371	\$ 156,807,615	
20	Total System kWh Sales									
21	Capacity Related System Costs Incurred (C/kWh)	Line 19 / Line 20 * 100	5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020	
22	SC Retail Sales kWh		0.3445	0.3257	0.3407	0.3140	0.2070	0.3301	6,378,034,838	
23	SC Capacity Related Costs	Line 21 * Line 22 / 100	530,741,577	555,006,997	472,674,530	438,867,713	711,282,280	546,522,278	16,014,747	
24	Residential Capacity Related Costs Allocated by Firm CP	Line 23 * Line 22 or (Line 1)	\$ 1,828,661	\$ 1,931,177	\$ 1,559,385	\$ 1,378,069	\$ 1,472,164	\$ 1,804,325	\$ 8,763,485	
25	SC Residential kWh Sales		184,493,017	146,380,809	134,485,077	177,212,921	290,755,069	205,774,470	2,128,607,284	
26	SC Residential Capacity Related Cost Incurred (C/kWh)		0.531	0.700	0.613	0.417	0.299	0.520		
27	SC Residential Non-Fuel Base Rates Billed (C/kWh)	Line 24 / Line 25 * 100	0.471	0.471	0.472	0.472	0.472	0.472		
28	SC Capacity Related (Over) / Under Recovery	(Line 26 - Line 27) * Line 25 / 100	\$ 110,370	\$ 335,595	\$ 190,857	\$ (97,259)	\$ (501,047)	\$ 98,482	\$ 437,530	
29	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 28 + Prior Month Cum Bal	\$ 1,045,805	\$ 1,381,200	\$ 1,572,057	\$ 1,474,738	\$ 973,751	\$ 1,072,233	\$ 1,072,233	
30	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery									
31	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 29 + Line 30							\$ 1,072,233	

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	
1	Winter 2017 Firm Coincident Peak (CP) KWS
2	Winter 2016 Firm Coincident Peak (CP) KWS

Residential
59.11%
53.59%

Exhibit 7  
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Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
32	PURPA Purchased Power Capacity Costs		\$ 3,501,027	\$ 6,134,712	\$ 6,242,325	\$ 6,319,797	\$ 86,618,437
33	Firm Natural Gas Transportation and Storage Costs		\$ 11,019,595	\$ 10,408,051	\$ 10,790,135	\$ 11,010,148	\$ 135,614,963
34	Total Capacity Costs	Line 32 + Line 33	\$ 14,520,622	\$ 16,542,763	\$ 17,032,460	\$ 17,329,940	\$ 222,233,400
35	Projected Total System Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
36	Capacity Related System Costs Incurred (c/kwh)	Line 34 / Line 35 * 100	0.3120	0.3669	0.3734	0.3243	
37	Projected SC Retail Sales (kwh)		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
38	SC Capacity Related Costs	Line 36 * Line 37 / 100	\$ 1,282,385	\$ 1,871,569	\$ 1,867,711	\$ 1,792,529	\$ 22,828,941
39	Residential Capacity Related Costs Allocated by Firm CP	Line 38 * Line 1	\$ 758,065	\$ 1,106,354	\$ 1,104,073	\$ 1,059,630	\$ 12,791,608
40	Projected SC Residential KWH Sales		143,961,446	157,681,226	140,660,012	176,681,596	2,747,591,564
41	SC Residential Capacity Related Cost Incurred (c/kwh)	Line 39 / Line 40 * 100	0.527	0.702	0.785	0.600	
42	SC Residential Non-Fuel Base Rates Billed (c/kwh)		0.472	0.471	0.471	0.471	
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ 79,187	\$ 363,675	\$ 441,564	\$ 227,460	\$ 1,549,416
44	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 43 + Prior Month Cum Bal	\$ 1,151,420	\$ 1,515,095	\$ 1,956,659	\$ 2,184,119	\$ 2,184,119
45	Adjustment(s)						\$ -
46	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ 2,184,119
47	SC Projected Residential KWH Sales July 2018 - June 2019						2,298,022,389
48	SC Projected Residential Capacity Related Increment / (Decrement) Calculated Rate (c/kwh)	(Line 46 / Line 47 * 100)					0.095



DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER / UNDER RECOVERY) - GENERAL SERVICE (NON-DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	General Service (non demand)							
1	Winter 2017 Firm Coincident Peak (CP) kWh	5.46%						
2	Winter 2016 Firm Coincident Peak (CP) kWh	5.41%						
Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017
3	PURPA Purchased Power Capacity Costs		\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 7,651,932	\$ 7,841,805
4	Firm Natural Gas Transportation and Storage Costs					-	\$ 11,550,068	\$ 11,880,797
5	Total Capacity Costs	Lines 3 + Line 4	\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 19,182,000	\$ 19,722,603
6	Total System kWh Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580
7	Capacity Related System Costs Incurred (c/kWh)	Line 5 / Line 6 * 100	0.0962	0.1109	0.0917	0.1573	0.3106	0.3331
8	SC Retail Sales kWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	\$ 419,262	\$ 495,994	\$ 469,892	\$ 773,191	\$ 1,967,803	\$ 1,912,824
10	General Service (Non-Demand) Capacity Related Cost Allocated by Firm CP	Line 9 * Line 2 (or Line 1)	\$ 22,668	\$ 26,817	\$ 26,487	\$ 41,804	\$ 107,475	\$ 103,421
11	SC General Service (Non-Demand) kWh Sales		20,052,032	18,808,809	21,365,077	25,851,439	30,675,784	29,894,018
12	SC General Service (Non-Demand) Capacity Related Cost Incurred (c/kWh)	Line 10 / Line 11 * 100	0.1130459	0.143	0.124	0.162	0.350	0.346
13	SC General Service (Non-Demand) Non-Fuel Base Rates Billed (c/kWh)		0.128	0.128	0.128	0.128	0.371	0.371
14	SC Capacity Related (Over) / Under Recovery	(Line 12 - Line 13)*Line 11 /100	(2.999)	\$ 2,742	\$ (860)	\$ 8,714	\$ (6,332)	\$ (7,486)
15	Prior Year Balance and Misc. Adjustments)	Prior Year Annual Filing	\$ 3,952					
16	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery	Line 14 + Prior Month Cum Bal	\$ 953	\$ 3,695	\$ 2,835	\$ 11,549	\$ 5,217	\$ (2,269)

Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
17	PURPA Purchased Power Capacity Costs		\$ 6,928,942	\$ 5,334,274	\$ 3,517,629	\$ 3,901,444	\$ 2,569,809	\$ 4,995,847	\$ 64,420,576
18	Firm Natural Gas Transportation and Storage Costs		11,526,501	11,868,893	11,123,697	11,895,757	11,484,861	11,575,524	92,387,029
19	Total Capacity Costs	Line 17 + Line 18	\$ 18,455,443	\$ 16,703,107	\$ 14,641,326	\$ 15,797,201	\$ 14,054,670	\$ 16,571,371	\$ 156,807,615
20	Total System kWh Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
21	Capacity Related System Costs Incurred (c./kWh)	Line 19 / Line 20 * 100	0.3445	0.3447	0.3257	0.3140	0.2070	0.3301	0.3010
22	SC Retail Sales kWh		530,741,577	555,006,997	472,674,330	438,867,713	711,128,280	546,522,278	6,378,034,838
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$ 1,828,661	\$ 1,913,177	\$ 1,559,385	\$ 1,376,069	\$ 1,472,164	\$ 1,800,325	\$ 16,014,747
24	General Service (Non-Demand) Capacity Related Cost Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	\$ 98,871	\$ 103,440	\$ 83,230	\$ 74,508	\$ 80,393	\$ 98,532	\$ 867,647
25	SC General Service (Non-Demand) kWh Sales		29,789,139	24,412,350	20,946,710	22,396,770	31,747,164	24,711,597	300,562,889
26	SC General Service (Non-Demand) Capacity Related Cost Incurred (c./kWh)	Line 24 / Line 25 * 100	0.332	0.424	0.397	0.334	0.253	0.399	0.289
27	SC General Service (Non-Demand) Non-Fuel Base Rates Billed (c./kWh)		0.371	0.371	0.371	0.371	0.371	0.371	
28	SC Capacity Related (Over) / Under Recovery	(Line 26 - Line 27) * Line 25 / 100	\$ (11,647)	\$ 12,870	\$ 5,518	\$ (8,258)	\$ (37,389)	\$ 6,852	\$ (38,275)
29	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery		\$ (13,516)	\$ (1,046)	\$ 4,472	\$ (3,786)	\$ (41,175)	\$ (34,323)	\$ (34,323)
30	Adjustment(s)								
31	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery	Line 29 + Line 30						\$ (34,323)	\$ (34,323)

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	
1	Winter 2017 Firm Coincident Peak (CP) KWh
2	Winter 2016 Firm Coincident Peak (CP) KWh

General Service (non demand)
5.46%
5.41%

Exhibit 7  
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Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
32	PURPA Purchased Power Capacity Costs		\$ 3,501,027	\$ 6,134,712	\$ 6,242,325	\$ 6,319,797	\$ 86,618,437
33	Firm Natural Gas Transportation and Storage Costs		11,019,595	10,408,051	10,790,135	11,010,143	135,614,963
34	Total Capacity Costs	Line 32 + Line 33	\$ 14,520,622	\$ 16,542,763	\$ 17,032,460	\$ 17,329,940	\$ 222,233,400
35	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
36	Capacity Related System Costs Incurred (c/kWh)	Line 34 / Line 35 * 100	0.3120	0.3669	0.3734	0.3243	
37	Projected SC Retail Sales kWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,282,385	\$ 1,871,569	\$ 1,867,711	\$ 1,792,529	\$ 22,828,941
39	General Service (Non-Demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	\$ 70,030	\$ 102,204	\$ 101,994	\$ 97,888	\$ 1,239,762
40	Projected SC General Service (Non-Demand) kWh Sales		18,983,274	23,240,933	23,715,501	24,777,789	391,280,386
41	SC General Service (Non-Demand) Capacity Related Cost Incurred (c/kWh)	Line 39 / Line 40 * 100	0.369	0.440	0.430	0.395	
42	SC General Service (Non-Demand) Non-Fuel Base Rates Billed (c/kWh)		0.371	0.371	0.371	0.371	
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ (398)	\$ 15,980	\$ 14,009	\$ 5,962	\$ (2,722)
44	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery	Line 43 + Prior Month Cum Bal	\$ (34,721)	\$ (18,741)	\$ (4,732)	\$ 1,230	\$ 1,230
45	Adjustment(s)						
46	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ 1,230
47	SC Projected General Service (Non-Demand) kWh Sales July 2018 - June 2019						289,418,823
48	SC Projected General Service (Non-Demand) Capacity Related Increment / (Decrement) Calculated Rate (c/kWh)	(Line 46 / Line 47 * 100)					-

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	General Service (demand)											
1	Winter 2017 Firm Coincident Peak (CP) KWS	35.43%										
2	Winter 2016 Firm Coincident Peak (CP) KWS	41.00%										
Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017				
3	PURPA Purchased Power Capacity Costs		\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 7,651,932	\$ 7,841,805				
4	Firm Natural Gas Transportation and Storage Costs											
5	Total Capacity Costs	Lines 3 + Line 4	\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 19,182,000	\$ 11,530,068				
6	Total System KWH Sales											
7	Capacity Related System Costs Incurred (C/KWH)	Line 5 / Line 6 * 100	4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580				
8	SC Retail Sales MWh		0.0862	0.1109	0.0917	0.1573	0.3106	0.3331				
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055				
10	SC General Service (Demand) Capacity Related Cost Allocated by Firm CP	Line 9 * Line 2 (or Line 1)	\$ 419,261.52	\$ 495,994	\$ 489,892	\$ 773,191	\$ 1987803.248	\$ 1,912,824				
11	SC General Service (Demand) KWH Sales		\$ 171,904	\$ 203,366	\$ 200,864	\$ 317,022	\$ 815,033	\$ 784,291				
12	SC General Service (Demand) Capacity Related Costs Incurred (C/KWH)	Line 10 / Line 11 * 100	662,683	640,150	693,150	661,633	692,814	691,771				
13	SC General Service (Demand) Non-Fuel Base Rates Billed (C/KWH)		26	32	29	48	118	113				
14	SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery	Line 12 - Line 13 / Line 11, /100	\$ 30	\$ 30	\$ 30	\$ 31	\$ 96	\$ 96				
15	Prior Year Balance and Misc. Adjustment(s)	Prior Year Annual Filing	\$ 254,606	\$ 11,322	\$ (7,080)	\$ 109,413	\$ 150,100	\$ 120,075				
16	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery	Line 14 + Prior Month Cum Bal	\$ 227,706	\$ 239,028	\$ 231,948	\$ 341,361	\$ 491,461	\$ 611,536				
Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018			Review Period Twelve Months Ended Feb-18	
17	PURPA Purchased Power Capacity Costs		\$ 6,928,942	\$ 5,334,274	\$ 3,517,629	\$ 3,901,444	\$ 2,569,809	\$ 4,995,847			\$ 64,420,576	
18	Firm Natural Gas Transportation and Storage Costs		\$ 11,526,501	\$ 11,368,833	\$ 11,123,697	\$ 11,895,757	\$ 11,484,861	\$ 11,576,524			\$ 92,387,039	
19	Total Capacity Costs	Line 17 + Line 18	\$ 18,455,443	\$ 16,703,107	\$ 14,641,326	\$ 15,797,201	\$ 14,054,670	\$ 16,572,371			\$ 156,807,615	
20	Total System KWH Sales											
21	Capacity Related System Costs Incurred (C/KWH)	Line 19 / Line 20 * 100	5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923			\$ 62,442,584,020	
22	SC Retail Sales MWh		0.3445	0.3447	0.3257	0.3140	0.2070	0.3301			\$ 6,378,034,838	
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$ 530,741,577	\$ 555,006,997	\$ 472,674,530	\$ 428,867,713	\$ 711,128,280	\$ 546,532,278			\$ 16,014,747	
24	SC General Service (Demand) Capacity Related Cost Allocated by Firm CP	Line 23 * Line 2 (or Line 1)	\$ 1,828,661	\$ 1,913,177	\$ 1,539,385	\$ 1,378,069	\$ 1,472,164	\$ 1,804,325			\$ 6,383,614	
25	SC General Service (Demand) KWH Sales		\$ 749,782	\$ 784,435	\$ 631,174	\$ 565,032	\$ 521,520	\$ 639,190			\$ 8,117,116	
26	SC General Service (Demand) Capacity Related Costs Incurred (C/KWH)		699,229	712,886	665,214	595,057	712,986	689,543				
27	SC General Service (Demand) Non-Fuel Base Rates Billed (C/KWH)	Line 24 / Line 25 * 100	107	110	95	95	73	93				
28	SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery	Line 26 - Line 27 / Line 25, /100	\$ 96	\$ 96	\$ 96	\$ 97	\$ (14,166)	\$ (21,689)			\$ 329,551	
29	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery	Line 28 + Prior Month Cum Bal	\$ 689,491	\$ 790,376	\$ 782,963	\$ 768,797	\$ 605,846	\$ 584,157			\$ 584,157	
30	Adjustment(s)											
31	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery	Line 29 + Line 30						\$			\$ 584,157	

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	
1	Winter 2017 Firm Coincident Peak (CP) kW
2	Winter 2016 Firm Coincident Peak (CP) kW

General Service (Demand)	
35.43%	
41.00%	

Exhibit 7  
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Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
32	PURPA Purchased Power Capacity Costs		\$ 3,501,027	\$ 6,134,712	\$ 6,242,325	\$ 6,319,797	\$ 86,618,437
33	Firm Natural Gas Transportation and Storage Costs		11,019,595	10,408,051	10,790,135	11,010,143	135,614,963
34	Total Capacity Costs	Line 32 + Line 33	\$ 14,520,622	\$ 16,542,763	\$ 17,032,460	\$ 17,329,940	\$ 222,233,400
35	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
36	Capacity Related System Costs Incurred (C/KWH)	Line 34 / Line 35 * 100	0.3120	0.3669	0.3734	0.3243	
37	Projected SC Retail Sales KWH		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,282,385	\$ 1,871,569	\$ 1,867,711	\$ 1,792,529	\$ 22,828,941
39	SC General Service (Demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	\$ 454,290	\$ 663,011	\$ 661,644	\$ 635,011	\$ 8,797,571
40	Projected SC General Service (Demand) kW Sales		657,929	769,162	700,963	853,386	11,098,556
41	SC General Service (Demand) Capacity Related Costs Incurred (C/KW)	Line 39 / Line 40 * 100		69	86	94	74
42	SC General Service (Demand) Non-Fuel Base Rates Billed (C/KW)						
43	SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery	Line 41 - Line 42 * Line 40 / 100	\$ 96 (177,328)	\$ 96 (75,391)	\$ 96 (11,287)	\$ 96 (184,248)	\$ (118,703)
44	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery	Line 43 + Prior Month Cum Bal	\$ 406,629	\$ 331,438	\$ 320,151	\$ 135,903	\$ 135,903
45	Adjusted Cumulative SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery	Line 44 + Line 45					\$ 135,903
46							
47	SC Projected General Service (Demand) kW Sales July 2018 - June 2019						9,217,404
48	SC General Service (Demand) Environmental Capacity Related Increment / (Decrement) Calculated Rate (C/KW)	(Line 46 / Line 47 * 100)					1

[illegible]

13	PURPA Purchased Power Capacity Costs	\$ 5,520,665	\$ 5,491,467	\$ 6,191,143	\$ 6,955,740	\$ 7,081,759	\$ 7,190,695	\$ 73,351,005
14	Firm Natural Gas Transportation and Storage Costs	10,627,178	10,680,475	13,329,030	12,768,293	12,664,477	12,760,374	137,608,820
15	Total Capacity Costs	\$ 16,147,843	\$ 16,171,942	\$ 19,520,173	\$ 19,724,033	\$ 19,723,236	\$ 19,981,070	\$ 211,000,825
16	Total Projected System Sales	5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887	5,303,092,725	62,836,279,402
17	Capacity Related System Costs Incurred (c/kwh)	0.222	0.301	0.384	0.420	0.426	0.377	0.336
18	Projected SC Retail Sales	611,904,722	577,254,045	547,947,253	531,038,947	507,654,583	545,438,047	6,698,199,477
19	SC Purchased Power Capacity Costs	\$ 1,666,788	\$ 1,738,069	\$ 2,102,487	\$ 2,232,585	\$ 2,160,301	\$ 2,055,109	\$ 22,575,849
	Line 17 * Line 18 /100							

25	Projected SC Retail Sales kWh (July 2018-June 2019)	
25	Residential	2,298,022,389
26	General Service (Non-Demand)	289,418,823
27	General Service (Demand)	4,015,466,686
28	Lighting	95,291,579
29	Total SC	6,698,199,477
	Sum Lines 25 through 28	

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DUNE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL (OVER) / UNDER RECOVERY  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Description	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	Review Period Twelve Months Ended Feb-18
<b>DERP Incremental Costs</b>								
1	Purchased Power Agreements							
2	DER NEM Incentive							
3	Solar Rebate Program - Amortization	6,208	5,119	6,935	8,831	8,712	11,998	
4	Shared Solar Program	6,259	7,654	19,908	26,557	31,404	33,452	
5	Carrying Costs on Deferred Amounts		-	-	-	-	-	
6	NEM Avoided Capacity Costs	5,775	6,689	13,171	22,792	28,152	31,384	
7	NEM Meter Costs	167	121	173	326	358	460	
8	General and Administrative Expenses	1,214	1,157	1,461	1,733	1,707	2,347	
9	Interest on under-collection due to cap	48,245	70,285	69,249	95,440	50,589	48,729	
10	Total DERP Incremental Costs	-	3	8	28	-	-	
Sum Lines 1 through 9								
11	Revenue Collected	67,819	91,029	110,905	155,707	120,922	128,369	
12	SC DERP Incremental Costs (Over) / Under Recovery	87,351	82,818	91,377	94,403	256,592	257,352	
13	(Over) / Under Cumulative Balance - February 2017	(19,538)	8,211	19,528	61,304	(135,670)	(128,983)	
14	Adjustments	391,293						
Prior Month Cumulative Balance -Line 12 + Line 13 +								
15	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	371,761	379,971	399,499	460,803	325,133	196,151	
<b>DERP Incremental Costs</b>								
16	Purchased Power Agreements							
17	DER NEM Incentive							
18	Solar Rebate Program - Amortization	12,567	13,278	18,795	20,680	20,221	19,467	
19	Shared Solar Program	38,768	39,005	39,691	40,830	41,017	49,758	
20	Carrying Costs on Deferred Amounts		-	-	-	-	-	
21	NEM Avoided Capacity Costs	34,837	37,696	37,940	38,630	39,064	41,483	
22	NEM Meter Costs	692	611	938	1,164	940	918	
23	General and Administrative Expenses	2,084	2,406	2,937	2,843	3,143	2,979	
24	Interest on under-collection due to cap	68,679	33,885	16,746	31,246	31,424	30,540	
25	Total DERP Incremental Costs	10	-	-	4	-	-	
Sum Lines 16 through 24								
26	Revenue Collected	157,637	126,882	117,047	135,397	135,809	145,146	
27	SC DERP Incremental Costs (Over) / Under Recovery	254,025	270,804	256,768	243,445	257,516	255,877	
28	Adjustments	(96,388)	(143,922)	(139,721)	(108,048)	(121,707)	(74,684)	
Prior Month Cumulative Balance -Line 27 + Line 28								
29	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	99,763	(44,160)	(183,881)	(291,929)	(412,505)	(448,552)	
<b>DERP Incremental Costs</b>								
30	Purchased Power Agreements							
31	DER NEM Incentive							
32	Solar Rebate Program - Amortization	24,186	32,280	34,817	37,598	281,691	-	
33	Shared Solar Program	50,020	52,830	55,640	58,450	591,244	-	
34	Carrying Costs on Deferred Amounts		-	-	-	-	-	
35	NEM Avoided Capacity Costs	48,869	50,159	52,739	55,303	544,634	-	
36	NEM Meter Costs	1,307	1,274	1,357	1,439	12,245	-	
37	General and Administrative Expenses	3,320	1,720	1,788	1,857	34,696	-	
38	Interest on under-collection due to cap	35,802	42,031	42,031	42,031	756,953	-	
39	Total DERP Incremental Costs	53	-	-	-	-	-	
Sum Lines 30 through 38								
40	Revenue Collected	163,503	180,294	188,372	196,678	2,221,516	-	
41	SC DERP Incremental Costs (Over) / Under Recovery	255,291	253,219	253,395	253,599	3,424,832	-	
42	Adjustments	(92,788)	(72,925)	(65,023)	(56,921)	(1,203,316)	-	
Prior Month Cumulative Balance -Line 41 + Line 42								
43	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	(541,430)	(614,264)	(679,287)	(736,208)	(736,208)	-	

DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP INCREMENTAL COSTS (OVER) / UNDER RECOVERY  
FOR THE PERIOD ENDING MARCH 2017 - JUNE 2018

1 Total DERP (Over) / Under Balance	March 2017 through
	June 2018
	(736,208)

Allocation of DERP Incremental (Over) / Under Recovery	Firm Peak Demand -		Cost Allocated per Firm Peak Demand
	2017	March 2017 through June 2018	
2 Residential	59.11%		(435,200)
3 Commercial (General Service Demand /Non-Demand)	23.46%		(172,709)
4 Industrial (General Service Demand /Non-Demand)	17.43%		(128,300)
5 Total	100.00%	(736,208)	(736,209)

	Projected Number of				
	Total Cost Allocated per Firm Peak Demand	Accounts in Billing Period	\$ per Account per Year	\$ per Account per Month	
6 Residential	\$ (435,200)	138,541	\$ (3.14)	\$ (0.26)	Line 2
7 Commercial (General Service Demand /Non-Demand)	(172,709)	31,114	\$ (5.55)	\$ (0.46)	Line 3
8 Industrial (General Service Demand /Non-Demand)	(128,300)	273	\$ (469.96)	\$ (39.16)	Line 4
9 Total	\$ (736,209)	169,928			

Billing Period									
Twelve Months Ended Jun-19									
Line No.	Description	Reference	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	
DERP Incremental Costs									
10	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
11	DER NEM Incentive		42,471	43,646	53,058	60,733	63,515	66,910	572,127
12	Solar Rebate Program - Amortization		78,016	80,721	83,425	86,130	88,835	91,539	918,380
13	Shared Solar Program		-	-	-	-	-	-	-
14	Carrying Costs on Deferred Amounts		72,749	75,078	77,391	79,689	81,971	84,238	855,882
15	NEM Avoided Capacity Costs		2,016	2,097	2,178	2,259	2,341	2,422	23,678
16	NEM Meter Costs		2,323	2,381	2,440	2,498	2,556	2,615	27,381
17	General and Administrative Expenses		17,275	17,275	17,275	17,275	17,275	17,275	355,840
18	Total DER Incremental Costs	Sum Lines 10 through 17	\$ 214,851	\$ 221,198	\$ 235,768	\$ 248,584	\$ 256,492	\$ 264,999	2,753,288



DUKE ENERGY PROGRESS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED BILLING PERIOD INCREMENTAL COST FACTORS FOR DERP COSTS  
FOR THE PERIOD ENDING JULY 2018- JUNE 2019

	July 2018 through June 2019
1 Total DERP Projected Incremental Costs	2,753,288

Allocation of DERP Incremental Costs for July 2018 - June 2019			
	Firm Peak Demand - 2017	July 2018 through June 2019	Cost Allocated per Firm Peak Demand
2 Residential	59.11%		1,627,570
3 Commercial (General Service Demand /Non-Demand)	23.46%		645,900
4 Industrial (General Service Demand /Non-Demand)	17.43%		479,818
5 Total	100.00%	2,753,288	2,753,288

	Total Cost Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period	\$ per Account per Year	\$ per Account per Month
6 Residential	\$ 1,627,570	138,541	\$ 11.75	\$ 0.98
7 Commercial (General Service Demand /Non-Demand)	645,900	31,114	\$ 20.76	\$ 1.73
8 Industrial (General Service Demand /Non-Demand)	479,818	273	\$ 1,757.58	\$ 146.47
9 Total	\$ 2,753,288	169,928		

DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm		CP %	Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	Review Period Twelve Months Ended Feb-18
		Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %												
1	Residential	616,871	53.59%	708,895	59.11%												
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%												
3	General Service (Demand)	471,954	41.00%	424,824	35.43%												
4	Lighting	0	0.00%	0	0.00%												
5	Total SC	1,151,060	100.00%	1,199,206	100.00%												
Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017									
6	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ 2,673	\$ -	\$ -									
7	Shared Solar Program		-	-	-	-	-	-									
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ -	\$ -	\$ -	\$ 2,673	\$ -	\$ -									
9	Total System kWh Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580									
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100		-	-	0.0001	-	-									
11	SC Retail Sales kWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055									
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ -	\$ -	\$ -	\$ 252	\$ 0	\$ -									
13	Residential DER Avoided Costs Allocated by Firm CP	Line 12 * Line 1	\$ -	\$ -	\$ -	\$ 135	\$ -	\$ -									
14	SC Residential kWh Sales		155,728,866	128,069,097	136,252,020	167,932,120	206,317,399	195,706,419									
15	SC Residential DERP Avoided Cost (c/kWh)	Line 13 / Line 14 * 100	-	-	-	0.000	-	-									
16	SC Residential Rate Billed (c/kWh)		-	-	-	-	-	-									
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 / 100	\$ -	\$ -	\$ -	\$ 135	\$ -	\$ -									
18	(Over) / Under Cumulative Balance - February 2017	Prior Year Annual Filing	-	-	-	-	-	-									
19	Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Line 17 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ 135	\$ 135	\$ 135									
Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018									
20	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085									
21	Shared Solar Program		-	-	-	-	-	-									
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085									
23	Total System kWh Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923									
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23* 100		-	-	-	0.0000	0.0004									
25	SC Retail Sales kWh		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278									
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ -	\$ -	\$ -	\$ 2,296	\$ 167	\$ 2,296									
27	Residential DER Avoided Costs Allocated by Firm CP	Line 26 * Line 1	\$ -	\$ -	\$ -	\$ -	\$ 99	\$ 1,357									
28	SC Residential kWh Sales		184,493,017	146,380,809	134,485,077	177,212,921	290,755,069	205,274,470									
29	SC Residential DERP Avoided Cost (c/kWh)	Line 27 / Line 28 * 100	-	-	-	-	0.000	0.001									
30	SC Residential Rate Billed (c/kWh)		-	-	-	-	-	-									
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 / 100	\$ -	\$ -	\$ -	\$ -	\$ 99	\$ 1,357									
32	Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Line 31 + Prior Month Cum Bal	\$ 135	\$ 135	\$ 135	\$ 135	\$ 234	\$ 1,591									

DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm		Estimated June 2018	Sixteen Months Ended June 2018
		Coincident Peak (CP) KWS	CP %	Coincident Peak (CP) KWS	CP %		
1	Residential	616,871	53.59%	708,895	59.11%		
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%		
3	General Service (Demand)	471,954	41.00%	424,824	35.43%		
4	Lighting	0	0.00%	0	0.00%		
5	Total SC	1,151,060	100.00%	1,199,206	100.00%		

  

Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
33	Purchased Power Agreements		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	275,401
34	Shared Solar Program		-	-	-	-	-
35	Total DERP Avoided Costs	Line 33 + Line 34	\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	275,401
36	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
37	DERP Avoided System Costs (c/kWh)	Line 35 / Line 36 * 100	0.0011	0.0015	0.0015	0.0013	8,352,100,646
38	Projected SC Retail Sales kWh		411,013,563	510,104,190	500,130,869	552,817,186	28,906
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100	\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,935	17,074
40	Residential DER Avoided Costs Allocated by Firm CP	Line 39 * Line 1	\$ 2,554	\$ 4,484	\$ 4,346	\$ 4,099	17,074
41	Projected SC Residential kWh Sales		143,961,446	157,681,226	140,660,012	176,681,596	2,747,591,564
42	SC Residential DERP Avoided Cost (c/kWh)	Line 40 / Line 41 * 100	0.002	0.003	0.003	0.002	0.001
43	SC Residential Rate Billed (c/kWh)		-	-	-	-	-
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43)*Line 41 / 100	\$ 2,554	\$ 4,484	\$ 4,346	\$ 4,099	17,074
45	Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal	\$ 4,144	\$ 8,628	\$ 12,974	\$ 17,074	17,074
46	SC Projected Residential kWh Sales Jul'18 - Jun'19						2,298,022,389
47	SC Residential DERP Avoided Costs Increment / (Decrement) (c/kWh)	Line 45 / Line 46 * 100					0.001

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DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017
6	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	Shared Solar Program		-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ -	\$ -	\$ -	2,673 \$	-	-
9	Total System KWh Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580
10	DERP Avoided System Costs (c/KWh)	Line 8 / Line 9 * 100	-	-	-	0.0001	-	-
11	SC Retail Sales KWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ -	\$ -	\$ -	252 \$	-	-
13	General Service (Non-Demand) DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 2	\$ -	\$ -	\$ -	14 \$	-	-
14	SC General Service (Non-Demand) kWh Sales		20,052,032	18,808,809	21,365,077	25,851,439	30,675,784	29,894,018
15	SC General Service (Non-Demand) DERP Avoided Cost (c/KWh)	Line 13 / Line 14 * 100	-	-	-	0.000	-	-
16	SC General Service (Non-Demand) Rate Billed (c/KWh)	(Line 15 - Line 16) * Line 14 / 100	-	-	-	-	-	-
17	SC DERP Avoided Costs (Over) / Under Recovery	Prior Year Annual Filing	\$ -	\$ -	\$ -	14 \$	-	-
18	(Over) / Under Cumulative Balance - February 2017	Line 17 + Prior Month Cum	-	-	-	14 \$	-	-
19	Cumulative SC General Service (Non-Demand) DERP Avoided Costs (Over) / Under Recovery	Bal	\$ -	\$ -	\$ -	14 \$	14 \$	14

Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
20	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	1,595 \$	21,085 \$	25,353
21	Shared Solar Program		-	-	-	-	-	-	-
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ -	\$ -	\$ -	\$ -	1,595 \$	21,085 \$	25,353
23	Total System KWh Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
24	DERP Avoided System Costs (c/KWh)	Line 22 / Line 23 * 100	-	-	-	-	0.0000	0.0004	-
25	SC Retail Sales KWh		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ -	\$ -	\$ -	\$ -	167 \$	2,296 \$	2,715
27	General Service (Non-Demand) DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 2	\$ -	\$ -	\$ -	\$ -	9 \$	125 \$	148
28	SC General Service (Non-Demand) kWh Sales		29,789,139	24,412,350	20,946,710	22,308,770	31,747,164	24,711,597	300,562,889
29	SC General Service (Non-Demand) DERP Avoided Cost (c/KWh)	Line 27 / Line 28 * 100	-	-	-	-	0.000	0.001	0.000
30	SC General Service (Non-Demand) Rate Billed (c/KWh)	(Line 29 - Line 30) * Line 28 / 100	\$ -	\$ -	\$ -	\$ -	9 \$	125 \$	148
31	SC DERP Avoided Costs (Over) / Under Recovery	Line 31 + Prior Month Cum	\$ -	\$ -	\$ -	\$ -	23 \$	148 \$	148
32	Cumulative SC General Service (Non-Demand) DERP Avoided Costs (Over) / Under Recovery	Bal	\$ -	\$ -	\$ -	\$ -	148 \$	148 \$	148

DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWs	CP %	Coincident Peak (CP) KWs	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Line No.	Description	Reference	Estimated		Estimated		Estimated		Estimated	Sixteen Months Ended
			March 2018	April 2018	May 2018	June 2018	June 2018	June 2018		

33	Purchased Power Agreements		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401
34	Shared Solar Program		-	-	-	-	-	-	-
35	Total DERP Avoided Costs	Line 33 + Line 34	\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401
36	Total/Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004		
37	DERP Avoided System Costs (c/kWh)	Line 35 / Line 36 * 100	0.0011	0.0015	0.0015	0.0013	0.0013		
38	Projected SC Retail Sales kWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646		
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100	\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,935	\$ 28,906		
40	General Service (Non-Demand) DERP Avoided Costs Allocated by Firm CP	Line 39 * Line 2	\$ 236	\$ 414	\$ 401	\$ 379	\$ 1,578		
41	Projected SC General Service (Non-Demand) kWh Sales		18,983,274	23,240,933	23,715,501	24,777,789	391,280,386		
42	SC General Service (Non-Demand) DERP Avoided Cost (c/kWh)	Line 40 / Line 41 * 100	0.001	0.002	0.002	0.002	0.002	0.000	
43	SC General Service (Non-Demand) Rate Billed (c/kWh)		-	-	-	-	-	-	
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43)*Line 41 / 100	\$ 236	\$ 414	\$ 401	\$ 379	\$ 1,578		
45	Cumulative SC General Service (Non-Demand) DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal	\$ 384	\$ 798	\$ 1,200	\$ 1,578	\$ 1,578		
46	SC Projected General Service (Non-Demand) kWh Sales Jul'18 - Jun'19								289,418,823
47	Cumulative SC General Service (Non-Demand) DERP Avoided Costs Increment / (Decrement) (c/kWh)	Line 45 / Line 46 * 100							0.001

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DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm			Winter 2017 Firm		
		Coincident Peak (CP) KWs	CP %		Coincident Peak (CP) KWs	CP %	
1	Residential	616,871	53.59%		708,895	59.11%	
2	General Service (Non-Demand)	62,235	5.41%		65,487	5.46%	
3	General Service (Demand)	471,954	41.00%		424,824	35.43%	
4	Lighting	0	0.00%		0	0.00%	
5	Total SC	1,151,060	100.00%		1,199,206	100.00%	

Line No.	Description	Reference		Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017
6	Purchased Power Agreements			\$ -	\$ -	\$ -	\$ 2,673	\$ -	\$ -
7	Shared Solar Program			-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7		\$ -	\$ -	\$ -	\$ 2,673	\$ -	\$ -
9	Total System kWh Sales			4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9* 100		-	-	-	0.0001	-	-
11	SC Retail Sales kWh			435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100		\$ -	\$ -	\$ -	\$ 252	\$ -	\$ -
13	General Service (Demand) DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 3		\$ -	\$ -	\$ -	\$ 103	\$ -	\$ -
14	SC General Service (Demand) kW Sales			662,683	640,150	693,150	661,633	692,814	691,771
15	SC General Service (Demand) DERP Avoided Costs (c/kWh)	Line 13 / Line 14 * 100		-	-	-	0.02	-	-
16	SC General Service (Demand) Rate Billed (c/kWh)			-	-	-	-	-	-
17	SC DERP Avoided Costs (Over) / Under Recovery (Over) / Under Cumulative Balance - February 2017	(Line 15 - Line 16)*Line 14 /100 Prior Year Annual Filing		\$ -	\$ -	\$ -	\$ 103	\$ -	\$ -
18									
19	Cumulative SC General Service (Demand) DERP Avoided Costs (Over) / Under Recovery	Line 17 + Prior Month Cum Bal		\$ -	\$ -	\$ -	\$ 103	\$ 103	\$ 103

Line No.	Description	Reference		Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
20	Purchased Power Agreements			\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085	\$ 25,353
21	Shared Solar Program			-	-	-	-	-	-	-
22	Total DERP Avoided Costs	Line 20 + Line 21		\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085	\$ 25,353
23	Total System kWh Sales			5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100						0.0000	0.0004	
25	DERP Avoided System Costs (c/kWh)			530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100		\$ -	\$ -	\$ -	\$ -	\$ 167	\$ 2,296	\$ 2,715
27	General Service (Demand) DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 3		\$ -	\$ -	\$ -	\$ -	\$ 58	\$ 813	\$ 975
28	SC General Service (Demand) kW Sales			699,229	712,886	665,214	595,057	712,986	689,543	8,117,116
29	SC General Service (Demand) DERP Avoided Costs (c/kWh)	Line 27 / Line 28 * 100		-	-	-	-	0.008	0.118	0.012
30	SC General Service (Demand) Rate Billed (c/kWh)			-	-	-	-	-	-	-
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100		\$ -	\$ -	\$ -	\$ -	\$ 58	\$ 813	\$ 975
32	Cumulative SC General Service (Demand) DERP Avoided Costs (Over) / Under Recovery	Line 31 + Prior Month Cum Bal		\$ 103	\$ 103	\$ 103	\$ 103	\$ 162	\$ 975	\$ 975

DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWs	CP %	Coincident Peak (CP) KWs	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Line No.	Description	Reference		Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
33	Purchased Power Agreements			\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401
34	Shared Solar Program			-	-	-	-	-
35	Total DERP Avoided Costs	Line 33 + Line 34		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401
36	Total Projected System kWh Sales			4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
37	DERP Avoided System Costs (c/kWh)	Line 35 / Line 36 * 100		0.0011	0.0015	0.0015	0.0013	0.0013
38	Projected SC Retail Sales kWh			411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100		\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,995	\$ 28,906
40	General Service (Demand) DERP Avoided Costs Allocated by Firm CP	Line 39 * Line 3		\$ 1,530	\$ 2,687	\$ 2,604	\$ 2,457	\$ 10,253
41	Projected SC General Service (Demand) KW Sales			657,929	769,162	700,963	853,386	11,098,556
42	SC General Service (Demand) DERP Avoided Costs (c/kWh)	Line 40 / Line 41 * 100		0.233	0.349	0.372	0.288	0.092
43	SC General Service (Demand) Rate Billed (c/kWh)			-	-	-	-	-
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43)*Line 41 /100		\$ 1,530	\$ 2,687	\$ 2,604	\$ 2,457	\$ 10,253
45	Cumulative SC General Service (Demand) DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal		\$ 2,505	\$ 5,192	\$ 7,797	\$ 10,253	\$ 10,253
46	SC Projected General Service (Demand) KW Sales Jul'18-Jun'19							9,217,404
47	SC General Service (Demand) DERP Avoided Cost Increment / (Decrement) (c/kW)	Line 45 / Line 46 * 100						0

DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - LIGHTING  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm		Winter 2017 Firm		Winter 2017 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %
1	Residential	616,871	53.59%	708,895	59.11%						
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%						
3	General Service (Demand)	471,954	41.00%	424,824	35.43%						
4	Lighting	0	0.00%	0	0.00%						
5	Total SC	1,151,060	100.00%	1,199,206	100.00%						

  

Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017
6	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	Shared Solar Program		-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ -	\$ -	\$ -	\$ 2,673	\$ -	\$ -
9	Total System kWh Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580
10	DERP Avoided Costs (c/kWh)	Line 8 / Line 9 * 100	-	-	-	0.0001	-	-
11	SC Retail Sales kWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ -	\$ -	\$ -	\$ 252	\$ -	\$ -
13	Lighting DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	SC Lighting kWh Sales		7,125,059	6,798,177	7,254,430	7,780,059	6,906,875	6,824,762
15	SC Lighting DERP Avoided Costs (c/kWh)	Line 13 / Line 14 * 100	-	-	-	-	-	-
16	SC Lighting Rate Billed (c/kWh)		-	-	-	-	-	-
17	SC DERP Avoided Costs (Over) / Under Recovery (Over) / Under Cumulative Balance - February 2017	(Line 15 - Line 16) * Line 14 / 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Prior Year Annual Filing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19		Line 17 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

  

Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
20	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085	\$ 25,353
21	Shared Solar Program		-	-	-	-	-	-	-
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085	\$ 25,353
23	Total System kWh Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
24	DERP Avoided Costs (c/kWh)	Line 22 / Line 23 * 100	-	-	-	-	0.0000	0.0004	-
25	SC Retail Sales kWh		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ -	\$ -	\$ -	\$ -	\$ 167	\$ 2,296	\$ 2,715
27	Lighting DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	SC Lighting kWh Sales		6,762,845	7,045,388	6,780,127	6,503,445	6,784,249	6,687,917	83,253,333
29	SC Lighting DERP Avoided Costs (c/kWh)	Line 27 / Line 28 * 100	-	-	-	-	0.0000	0.0000	0.0000
30	SC Lighting Rate Billed (c/kWh)		-	-	-	-	-	-	-
31	SC DERP Avoided Costs (Over) / Under Recovery (Over) / Under Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30) * Line 28 / 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32		Line 31 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



DUKE ENERGY PROGRESS, INC.  
SOUTH CAROLINA RETAIL FUEL CASE  
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - LIGHTING  
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Exhibit 13  
Page 4b of 4  
DOCKET NO 2018-1-E

Line No.	Description	Reference	Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Sixteen Months Ended June 2018
33	Purchased Power Agreements		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401
34	Shared Solar Program		-	-	-	-	-
35	Total DERP Avoided Costs	Line 33 + Line 34	\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401
36	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004
37	DERP Avoided Costs (c/kWh)	Line 35 / Line 36 * 100	0.0011	0.0015	0.0015	0.0013	0.0013
38	Projected SC Retail Sales kWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100	\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,935	\$ 28,906
40	Lighting DERP Avoided Costs Allocated by Firm CP	Line 39 * Line 4	-	-	-	-	\$ -
41	Projected SC Lighting kWh Sales		6,689,961	7,700,522	7,840,804	8,158,978	113,643,598
42	SC Lighting DERP Avoided Costs (c/kWh)	Line 40 / Line 41 * 100	0.000	0.000	0.000	0.000	0.000
43	SC Lighting Rate Billed (c/kWh)		-	-	-	-	-
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43) * Line 41 / 100	\$ -	\$ -	\$ -	\$ -	\$ -
45	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ -	\$ -
46	SC Projected Lighting kWh Sales Jul'18-Jun'19						95,291,579
47	SC Lighting DERP Avoided Increment / (Decrement) (c/kWh)	Line 45 / Line 46 * 100					0.000

Line No.	Description	Reference	2018	2018	2018	2018	2018	2018
6	Purchased Power Agreements		\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045
7	Shared Solar Program		-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045
9	Projected Total System Sales		6,035,990,340	6,046,836,934	5,391,900,583	4,610,783,803	4,534,155,911	5,201,927,524
10	DERP Avoided System Costs (¢/kwh)	Line 8 / Line 9 *100	0.001	0.001	0.001	0.001	0.001	0.001
11	Projected SC Retail Sales		613,926,323	625,682,104	580,984,433	525,432,978	488,237,837	542,698,205
12	SC DERP Avoided Costs	Line 10 * Line 11 /100	\$ 6,819	\$ 6,937	\$ 7,224	\$ 7,640	\$ 7,219	\$ 6,995

13	Purchased Power Agreements		\$	66,710	\$	66,710	\$	66,710	\$	66,710	\$	66,710	\$	802,553
14	Shared Solar Program													
15	Total DERP Avoided Costs	Line 13 + Line 14	\$	66,710	\$	66,710	\$	66,710	\$	66,710	\$	66,710	\$	802,553
16	Projected Total System Sales		5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887	5,303,092,725	62,836,279,402					
17	DERP Avoided System Cost (¢/kwh)	Line 15 / Line 16 *100	0.001	0.001	0.001	0.001	0.001	0.001	0.001					
18	Projected SC Retail Sales		611,904,722	577,254,045	547,947,253	531,038,947	507,654,583	545,438,047	6,698,199,477					
19	SC DERP Avoided Costs	Line 17 * Line 18/100	\$	6,886	\$	7,185	\$	7,309	\$	6,861	\$	85,797		

25	Projected SC Retail Sales kWh for the 12 month period	
26	Residential	2,296,022,389
27	General Service (Non-Demand)	289,418,823
28	General Service (Demand)	4,015,466,686
29	Lighting	95,291,579
	Total SC	6,698,199,477
	Sum Lines 25 through 28	

30	SC DERP Avoided Costs c/kWh	Line 20 / Line 25 * 100	0.002
31	Residential	Line 21 / Line 26 * 100	0.002
32	General Service (Non-Demand)	Line 22 / Line 27 * 100	0.000
33	Lighting		
33	Projected SC KW Sales (General Service demand)	Line 22 / Line 33 * 100	9,217,404
34	General Service (Demand) charge for SC DERP AvoidedCosts		0

**Exhibit 15**  
**DOCKET NO 2018-1-E**

Line	Description	Reference	Residential (Rate Schedule RES)	General Service (Rate Schedule SCSGS)
1	Representative NEM Customer bill without solar		\$ 1,599.88	\$ 1,712.63
2	Representative NEM Customer bill WITH solar		\$ 1,081.69	\$ 1,177.93
3	Difference	Line 1 - 2	\$ 518.18	\$ 534.70
4	Representative annual solar production kWhs		4720	4720
5	Value of solar in dollars per kWh	Proposed	0.05036	0.05036
6	Net Benefits delivered by solar production	Line 4 * 5	\$ 237.68	\$ 237.68
7	Under-recovered revenue from NEM Customer	Line 3 - 6	\$ 280.50	\$ 297.02
8	Annual solar production kWhs	Line 4	4720	4720
9	DERP NEM Incentive in dollars per kWh	Line 7 / Line 8	\$ 0.05943	\$ 0.06293